

TELEGRAMS: "CHEMICUS, CANNON, LONDON" (2 Words)

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No. 2096

MARCH 27, 1920.

VOL. XCII.

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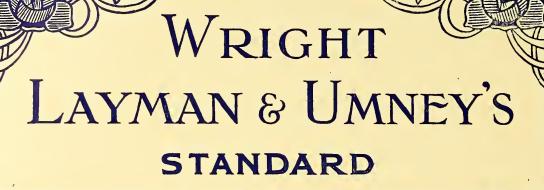
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- "It helps to sell a good and profitable line."
- "Something new every month attracts attention thereby stimulating interest. Interest created in possible customers is half a sale."
- " My customers like to read the Messages."
- "Sales have increased 200%."
- "Sales splendid."
- "Creates great demand for Glaxo and everything conducive to Baby's comfort and progress."
- "Increases sale of Glaxo, thereby brings more customers in shop."
- "Customers are interested—sales increasing."
- "Brings people into shop, who always need something besides Glaxo."
- "I consider it a real sales getter both for Glaxo and other articles."
- "You consistently push the pharmacist."
- "A decided help in our mutual interests."
- "It has proved a 'seller.'
  We both benefit."
- "It is to our mutual advantage
  —Glaxo is becoming a household word."
- "It links up our pharmacies with a real, live advertising campaign."
- "Since I have been regularly receiving the Monthly Message my Glaxo sales have nearly trebled."

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# Monthly Message to Mothers is sent to you—FREE

READ the opinions—in the column opposite—of chemists who have proved the advertising and sales value of the "Glaxo Monthly Message to Mothers." This mutual "business builder" helps them not only to sell Glaxo but also other articles stocked for "The Chemists' best customer—BABY."

It will help you too—if you will give it prominent display in your shop window. The Monthly Message is freshly designed each month and is sent post free—gummed ready for fixing. A postcard, stating the number you can display, will bring your copy, or copies, regularly—each month.

Send a Postcard—TO-DAY to the Sales Manager GLAXO, 155 Gt. Portland St., London, W.1.

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NOTICE.—Owing to the recent increase in railway rates, carriage will, in future, only be paid on goods to the minimum net value of 57/8

# THE XXIst CHEMISTS' EXHIBITION

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St. John Street - Clerkenwell, LONDON, E.C.

Pharmacists are reminded that the date of the above is April 12-16 next

THE whole of the available space in the two Halls has been taken up by some 100 Firms representing all branches of the Trade, and a most interesting and complete series of Exhibits will be on view.

The Exhibition will be open from 11 a.m. to 9 p.m. daily. Orchestras will play during the run of the Exhibition, and Organ Recitals with Choral Accompaniment will be given.

The "British and Colonial Pharmacist" Reception Room will be at the service of all Subscribers to the Journal, who will be heartily welcomed by the Staff. Light Refreshments will be provided.

#### RAILWAY REBATES FOR SUBSCRIBERS.

Every Retail Chemist in business in the United Kingdom who is, or becomes before March 31, an annual subscriber to the "British and Colonial Pharmacist," is entitled to a rebate from the cost of his return ticket to London, whether he pay ordinary fare or excursion fare. The maximum rebate will be 30/- off third-class fare. For example, the return third-class fare from Bristol is £1 9s. 4d., we pay half, and the chemist subscribes the balance. Where the fare exceeds £3 we limit our payment to £1 10s. Notice of intention to claim this rebate must be received at these offices not later than March 31 in order that the necessary lists may be prepared. In no circumstances will Railway Rebates be paid unless we have received a claim on or before this date. The amount is paid during the Exhibition in the "British and Colonial Pharmacist" Reception Room on production of return half of railway ticket. The Annual Subscription to the "British and Colonial Pharmacist" is 15/-

A properly equipped Restaurant will be fitted up, and Hot and Cold Luncheons, Teas and Dinners will be supplied at moderate prices.

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Telegrams: "Pharmacist, Ave, London."

The ASPIRIN REPORT as now published is very clear, concise and fair. We would particularly point out the following paragraph:—

"There is no substantial difference, either physical or chemical, between some seven varieties of Aspirin Tablets now on sale to the public, and that, in particular, certain of the less expensive tablets are in no way inferior to their more expensive rivals."

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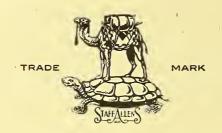


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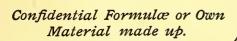
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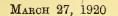
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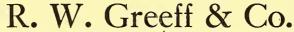
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NUMBER 441. MARCH 27, 1920-

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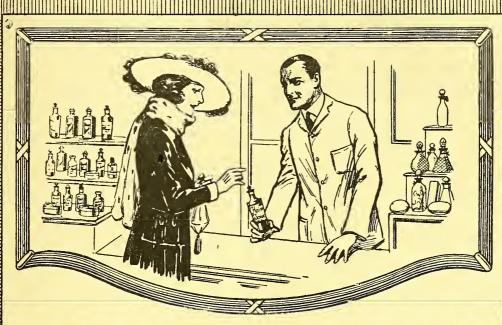


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## The Rat Peril!

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		,, - <b>12/9</b> ,,   6 ,, - <b>9/9</b> ,
	12	,, - <b>12/6</b> ,,   12 ,, - <b>9/6</b> ,,
		The P.A.T.A. prices for Java Powder have been increased to
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"1915" Old English Lavender Water

London Wholesale Agents:

BUTLER & CRISPE, Clerkenwell Road, E.C.1. WM. EDWARDS & SONS, 157 Queen Victoria Street, E.C.4 R. HOVENDEN & SONS, LTD.

Berners Street, W.1., & City Road, E.C.1.



#### SPECIAL BONUS OFFER.

For fourteen days' Prominent Window Display.

Goods (any assortment) to net value £10, 20/- Special Cash Discount.

Goods (any assortment) to net value £20, 42/- Special Cash Discount.

"1915" OID English Lavender Mater

Provincial Wholesale Agents: HIRST, BROOK & HIRST,

Leeds. LORIMER, MOYES & CO.,

Glasgow.
PARTON, SONS & CO., LTD. Birmingham.

Send a postcard to-day for particulars of full range of "1915" Series of Toilet Specialities together with samples of "1915" Old English Lavender Water and "1915" Eau de Cologne.

### THE BRITISH TOILET & PERFUMERY CO.

(H. LESTER, M.P.S., Proprietor)

64 GREAT TITCHFIELD STREET, LONDON, W. 1.

The Chemists' Manufacturing Co. Ltd. SHIRLEY BROTHERS.

## The HOUSE for INS AND CARDBOARD

#### CONTAINERS.

Health Salt & Lemonade Powder Shampoos

Ordinary and Henna.

Insect Powder

All Sizes.

Hair Dye

5/3 and 7/6 doz. In Cartons.

Talcum Powder

Decorated oval sprinkler tins. 8/6 doz.

Evelina Hygienic Feeders

Peach Bloom Face Powder

P.A.T.A. 71d. 3/6 doz.

Poudre Cecile, with Puff

8/- doz.

Tube Goods

Large Range.

Tooth Powders

At prices to suit all classes of trade.

Soothers

"Nurse Margery." From 13/6 per gross upwards, fitted with Ribbed Transparent Teats.

Smelling Salts

**B.P.** Ointments

In Bulk.

Cold Cream

Superb quality.

Dyes

Splendid 3d. line. \_Etc. etc.

Write for Special List. Come and see us at the Chemists' Exhibition, entrance card on application.

123-5 NEWINGTON CAUSEWAY. LONDON, S.E.1.

## EARBORN

37 Gray's Inn Road, LONDON, W.C.

#### Toilet Specialities.

·	Price per doz.	Selling Price
DILENTA SOAP	to Retailer.	P.A.T.A. 1/
A complexion soap.	10/-	1/
PROLACTUM	10/-	1/-
	10/_	1/_
For wrinkles.		•/
		2/6
DECODOM	•	
	22/6	2/6
	22/6	2/6
For a face lotion.		
	22/6	2/6
	22/6	2/6
A deodorant.		
	22/6	2/6
	31/6	3/6
For clearing the skin.		)
	36/-	4/-
MENNALINE	36/-	4/-
For the eyelashes.		
	31/6	3/6
STYMOL	36/-	4/-
For oily complexions and blackheads.		0/0
	22/6	2/6
TAMMALITE	22/6	2/6
For grey or faded hair,	24/6	
		3/6
BICROLIUM	22/6	2/6
For whitening the hands.	00/6	0/6
Nut oil shampoo.	22/0	2/6
	SALE HO	USES
	PROLACTUM For the lips.  PARSIDIUM JELLY For wrinkles.  ALLACITE of ORANGE A dressing cream. BLOSSOM  BORANIUM A hair tonic.  CLEMINITE For a face lotion.  COLLIANDUM For a face tint.  PERGOL A deodorant.  STALLAX For a shampoo JETTALINE For clearing the skin.  PHEMINOL A depilatory.  MENNALINE For the eyelashes.  MERCOLIZED WAX A face cream.  STYMOL For oily complexions and blackheads.  BARSYDE Dandrufi eradicator.  TAMMALITE For grey or faded hair.  LIQUID PERGOL To check excessive perspiration local BICROLIUM For whitening the hands.  HARAPOSA Nut oil shampoo.	PILENTA SOAP - 10/- A complexion soap.  PROLACTUM - 10/- For the lips.  PARSIDIUM JELLY - 10/- For wrinkles.  ALLACITE of ORANGE 22/6 A dressing cream. BLOSSOM  BORANIUM - 22/6 A hair tonic.  CLEMINITE - 22/6 For a face lotion.  COLLIANDUM - 22/6 For a face tint.  PERGOL - 22/6 A deodorant.  STALLAX - 22/6 For a shampoo JETTALINE - 31/6 For clearing the skin.  PHEMINOL - 36/- A depilatory.  MENNALINE - 36/- For the eyelashes.  MERCOLIZED WAX 31/6 A face cream.  STYMOL - 36/- For oily complexions and blackheads.  BARSYDE 22/6 Dandruff eradicator.  TAMMALITE - 22/6 To check excessive perspiration localls.  BICROLIUM - 22/6 For whitening the hands.  HARAPOSA 22/6

#### COLONIAL DEPOTS AND AGENCIES.

AUSTRALIA I ALL WHOLESALERS and DEARBORN, Ltd., Grace House, Clarence Street, Sydney.

SOUTH AFRICA:

LENNON & CO., Ltd. (Case Town)

SIVE BROS. & KARNOVSKY Ltd. (Johannesburg)

INDIA:

KEMP & CO., Ltd. (Bombay).

R. MACLURE (Madras).

SMITH, STANISTREET & CO. (Calcutta).

MEHTA BROS. (Calcutta).

JAMNADAS BROS. (Bombay).

NEW ZEALANDS SHARLAND & CO., Ltd. (Auckland & Wellington). BOUTH AMERICA: DEARBORN, Ltd., Calla Salta 264, Buenos Aires.



ORDINARY PROFIT MARGIN

**EUCRYL PROFIT** 

Make a bigger margin of profit!

Your overhead charges—your living expenses are up at least 100%—therefore it behoves you to stock and sell profitable lines only. Chief amongst these is EUCRYL TOOTH POWDER, that old and trusted friend. You know it leaves a good margin of profit, and you know the Public both like and will have it. Eucryl Tooth Powder is being generously advertised in the Daily Press. The demand is therefore increasing. Do not be caught without stock, else your competitor round the corner will get your trade.

# EUCRYL

still remains the finest, best and most popular Tooth Powder that is manufactured. Send a double order to meet the ever-increasing demand.

Write now for full particulars of our window and counter display bonus terms for Powder and Paste.

EUCRYL LTD.

138 Borough High Street, LONDON, S.E.1.

Think it over!

# THESE ARE JUST THE LINES YOU WANT.

"Leona" Series are of tip-top quality, beautifully packed, well advertised, leave you a good profit, and are on the P.A.T.A.



#### "LEONA" DENTAL CREAM

(Mint or Thymol)

Small Size ... Cost 4/6 per dozen Sell @  $7\frac{1}{2}$ d. Large Size ... 8/2 ... 8/2 ... (2) (3)

Recommended by the Institute of Hygiene.

### "LEONA" CREME DE BEAUTE

Cost 12/- per dozen Sell @ 1/6

A Delightfully Perfumed Vanishing Cream packed in handsome 2-oz. opal pots.

## "LEONA" BRILLIANTINE (SOLIDIFIED)

Cost 8/6 per dozen Sell @ 1/-

Packed in beautifully embossed tins and cartons.

#### POUDRE "LEONA"

Cost 8/- per dozen Sell @ 1/-

Richly perfumed and packed in gold-blocked boxes.

Every Line is a work of art.

Ask your wholesaler to show them to you, and

## YOU WON'T REGRET IT

Sole Manufacturers and Proprietors-

THE JACKSON CO., 172 St. JOHN STREET, LONDON, E.C. 1.



## DENTAL POWDER & PASTE.

These remarkable dentifrices are very high grade preparations, and cannot do other than give your customers the greatest satisfaction. Have you ordered your stocks? The margin of profit shown to the retailer on these lines is probably the highest obtainable, working out at from  $112\frac{1}{2}$  per cent, to  $133\frac{1}{2}$  per cent.

LINDOL DENTIFRICES are obtainable from your usual whole-saler in any quantity at the following prices:—

	P.A,T.A.	dozen.
DENTAL CREAM.		
In tubes $4\frac{1}{2}'' \times 1''$ , in cartons		5/10
In tubes $4'' \times \frac{3''}{4}$ , in cartons	$-\frac{17\frac{1}{2}}{2}$	3/8
DENTAL POWDER.		
	- 1	

In tins - - - 1/- 5/6
In tins - - - - -/7½ 3/4

Terms:—Monthly account, 2\frac{1}{2} per cent. discount. Cash with Order, an additional I\frac{1}{2} per cent. discount.

Minimum direct parcel, 50/-, unless cash is sent with order.

Selling Agents for the Provinces, Ireland and Export—

#### Messrs. PATTINSON & MACKIE, LTD.,

Albion House, 59 New Oxford St., London, W.C.1.

Sole Manufacturers

#### A. & E. CARRERAS.

207 King Street, Hammersmith, London, W.6.



FREE FROM

REFRESHING PARTY VSING AND FRAGRATION





for Chapped Hands and Tender Feet.



The Line that SELLS!

Retail Price - 2d. Wholesale 12/- per gross.

## Shampoo Powders

Retail Price 2d. (7 for 1/-). Wholesale 9/6 per gross.

#### "SOFTO" FACE POWDER

Three tints-White, Pink and Cream. Retail 61d.

Wholesale: I dozen, 4/6; 3 dozen, 12/I gross (with 4 dozen bonus) 50/-Net. Carriage Paid.

#### SOFTO MANUFACTURING CO.

33 Edgware Road, London, W. 2.

The Dye with a Reputation for reliability.

#### COURT

SEVEN SHADES.

1/6 size 12/- doz. 2/6 size 18/- doz. P.A.T.A.

The only dve giving a natural gloss to the hair. From all wholesalers or direct

J. KNOX-WALKER & Co., Ltd., 422 Kingsland Rd., London E. 8.

VEEZERS & FORCEPS. Special quotations to large buyers. W. SCURR, HENRY RD., SLOUGH

beg to advise our friends in the Perfume and Soap Trade that we are again able to supply KRAMP'S High-Class Messrs. Productions

PERFUME BOTTLE LABELS. SOAP PRINTINGS. SEALS.

etc.

All former numbers can be repeated.

M. J. FECHER, Ltd., "Ilex Works," Northwold Road, London, N. 16.

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WORLD'S BEST.

HAVE YOU A GOOD STOCK OF "HARLENE HAIR DRILL" PREPARATIONS?



"HARLENE" FOR THE HAIR "UZON"

BRILLIANTINE

"CREMEX" SHAMPOO POWDERS

"ASTOL" FOR GREY HAIR

"ASTINE" VANISHING CREAM

"ASTINE" TOOTH CREAM

"ASTINE" **SHAVING** STICK

"ASTINE"

NAIL CREAM

OR STORE CAN AFFORD TO BE WITHOUT THIS NO CHEMIST TOILET PREPARATIONS UNIQUE LINE OF

> It is most desirable in your own interest to carry a good stock of these preparations, as owing to the enormous demand created by a world-wide advertising campaign the number of customers is daily increasing. Do not put yourself in the unenviable position of turning money away. Thousands of sample packets are dispatched to the general public daily, comprising :-

- A Trial Bottle of "Harlene."
- A "Cremex" Shampoo Powder.
  A Trial Bottle of "Uzon" Brilliantine,
- **Book of Instructions**
- 5.
- A Trial Bottle of "Astol." A Sample of "Astine" Vanishing Cream.

FOLLOW THE TIDE OF SUCCESS.

Watch the Creat F ee Cift Advertising Campaign that brings the Customers to YOUR shop,

For Particulars, Terms, etc., write to

CONDUIT ST., LONDON, W.C.1.

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## VAVC

HIS article has now been sufficiently long before the public to enable them to sample its merits. This the I public to enable them to sample its merits. This the public have done on a large scale, and many delighted users have come again and again to the retailers they buy from for further supplies. The demand has been extraordinary. At first the proprietors tried to cope with it per post, but they soon saw that this was too cumbersome and tedious a method, and they are now gladly availing themselves of the services of the trade. Wavcurl is a first-class seller and a first-class payer, too. The profits are all they should be on a toilet line, as any reader can see for himself in the P.A.T.A. Protected List. Forty per cent (40%) should surely awaken your interest, especially in a line that sells at sight. All classes of ladies, from the titled dame to the busy sight. All classes of ladies, from the titled dame to the busy factory worker, are using it as their readiest means of keeping themselves attractive, notwithstanding the great demand there is just now upon their time. To the user it is a great time-saver; to the seller, a great money-maker. We invite your application for Showcards and Dummies for window-dressing. A Wavcurl window-show in an industrial or factory area will simply make the shillings shower into your till. Address post card to

#### WAVCURL

FULWOOD HOUSE, HIGH HOLBORN, W.C. 1

1/6 Duvetine (Superfluous Hair Remover) ... 1/6 Wavcurl Hair Tonic (9 in Powdered Form) Per doz. 1/6 Wavcurl (in packets) ... 9/-2/9 Wavcurl (in bottles) ... 21/-1/6 Complexion Cream ... 10/-1/6 Eyelashine . 15/- Showcards for Window Dummies for Show ... 15/-2d. Shampoo Powder

Agents: PARIS .- A. W. Scott, 38 Rue du Mont Thabor. CANADA .- W. W. Barry, 1 Port Street, Montreal. 



The successful Remedy for PYORRHŒA.

Prescribed by the Dental Profession.

#### PRICES.

Wholesale (including Government Duty)
Dental Paste 23/- per doz. 6
Mouth Wash 48/- 1
Special Brush 24/- 1 6d. 1/-2/3 per tube 4/9 per bottle 2/6 each Attractive discounts to retailers willing to push these

Specialities. Of Wholesalers, or direct from

ORISAL Ltd., 77 George St., Portman Sq., W. 1

## LIAMSON



Puffs, Combs, Brushware, Manicure Sets & Sundries.

Extract from C. & D. of Jan. 10th - - have been able to obtain some lines which show excellent value for money.'

LOWER

THAMES STREET,

Phone: Avenue 5827

# 

superior tonic and hygienic Shampoo at a popular price. Packed in dainty slide cartons. Elegant in appearance and delightful in use. Perfumed with Irish Elegance. Counter boxes supplied.

Full particulars on request.

TOILET PREPARATIONS

LOTOZONE TOOTH PASTE LOTOZONE CREAM LOTOZONE FACE POWDER LOTOZONE POWDER PAPER

> The Shampoo Salesman, free on application, gives full details of prices and profit.

THE EVAN WILLIAMS COMPANY, LIMITED, 18 Ogle Street, LONDON, W. 1. 



## THE HAIR FOOD

MISS GLADYS COOPER USES IT, AND SAYS IT IS THE FINEST HAIR TONIC SHE HAS EVER USED.

The bottle is an ornament to any showcase.

Very attractive pictorial showcards.

Wholesale prices leaves a good margin.

THIS PREPARATION IS BEING EXTENSIVELY ADVERTISED IN THE ILLUSTRATED WEEKLY PAPERS.

Write to the Sales Manager,

The Richmond Pure Drug Co., Richmond, Surrey.

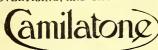
## Brings Repeat Orders———



selling Camilatone you are making certain of increasing your business because Camilatone makes pleased customers, and pleased customers always come again.

Ladies find that after using Camilatone the hair appears shades brighter by the lustre it produces. Camilatone is not a dye or a bleach, but a beauty shampoo.

IT IS 'SIMPLE TO SELL, SHOWS A GOOD MARGIN OF PROFIT, WE ASSIST YOU IN DEVELOPING THE BUSINESS AND 'HELP YOU WITH VIGOROUS ADVERTISING, AND SHOWCARDS.



puts Sunshine in the Hair.

Write to-day for a copy of booklet, "Hair Beauty Hints," which will be sent post free together with trade terms. Camilatone is obtainable from R. Hovenden & Son, Ltd. Berners St., W.1., and City Road. E. C. 1., and Hollywell & Co., 44 Lexington Street, Golden Sq., W.1., or direct from

CAMOMILE TONIC CO. 16 Lichfield Road, London, N.W. 2.

OVER 100 % PROFIT ENSURED & PROTECTED (P.A.T.A.)

for sellers of

## Laurence's Hair Dyes

One solution, nine shades.

A first-class article with an excellent demand, created entirely on its own merits, and carrying a first-class profit.

Size.	Minimum retail.		Minimum wholesale.		
1/-	• • •	1/-	• • •	7/6	
1/6	•••	1/6		9/-	per doz. less 5%
2/6		2/6		15/-	less 5% discount.
2/6 3/6	•••	3/6	•••	21/- )	discounts.
				. 1	

#### SPECIAL BONUS

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).

Do. 6 doz. do. 8 bottles gratis.
Do. 12 doz. do 18 bottles gratis.
Equivalent in the case of the size in most general demand, viz. 1/6 size, to 4/6, 12/- and 27/- respectively.

Sole Proprietors-

C. R. HARKER, STAGG & MORGAN,
DEVON WHARF,

Emmott Street, Mile End, London, E.1.

# PAPIER POUDRE

AND "POPPŒA" PREPARATIONS.



"LEHCARESOR."

Papiel Paudri

BRITISH MADE GOODS

#### Our Sunburn Tint

For Landworkers and Seaside Visitors.

Booklets - - - 8d. & 1/4 5/- & 10/- per doz. net.

Beware of Spurious Imitations.



PAPIER POUDRÉ, LTo., 20 Baker St., Portman Sq., London, W. and in Paris.

NOTE OUR TRADE MARKS, AS ABOVE.

## NEW PAPIER POUDRÉ PRICES.

WHITE, ROSE, or RACHEL Tints, 4d., 6d., 8d., and 1/4 size Booklets, 2/8, 3/9, 5/-, and 10/- per dozen net respectively.

SUNBURN TINT, 8d. and 1/4 sizes only, 5/- and 10/- per dozen net.

REFILLS to MIRROR CASES in WHITE OF RACHEL ... ... ... 2/8 per doz. net. 1/4 SHAVING PADS, FOR USE AFTER SHAVING (unscented, white only)

### THE ALL-BRITISH "POPPŒA" PREPARATIONS.



### NEW PRICES.

ROUGE is most popular. It is put up in most convenient form, and is Nature's Understudy.

IN PADS, 1/- each. 8/- per doz. net. IN MIRROR CASES, 1/4 each, 10 - per doz. net. REFILLS, 6d. each, at 3/9 per doz. net.

- "POPPŒA" MASSOLINE SKIN FOOD, in Jars, 1/2, 2/6 & 3/6 each; 9/6, 24/ & 28/-doz. net respectively
- "POPPŒA" CIRCASSIAN CREAM , 1/2, 2/6 & 3/6 , 9/6, 24/- & 28/- ,
- "POPPŒA" CRÈME POUDRÉ, in Bottles, 1/2 & 3/6 each; 9/6 & 28/- doz. net respectively.

PAPIER POUDRÉ, Ltd., 20 BAKER STREET, LONDON, W. 1.

# ROYALVINOLIA

Ladies Toilet Requisites.

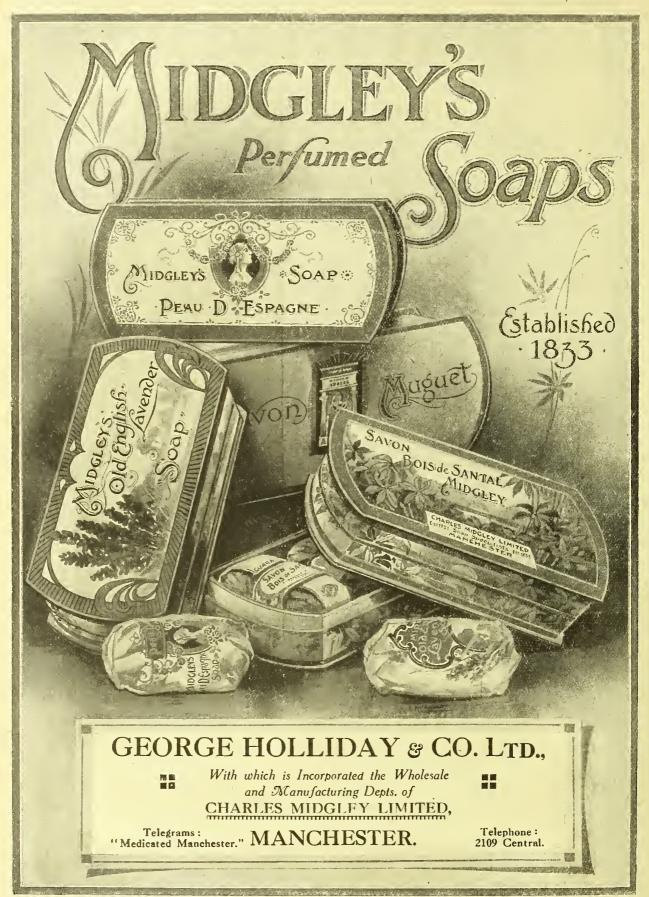
THE Toilet Requisites for ladies, manufactured by the Vinolia Company Limited, give pleasure by reason of their distinctive quality and charm.

Our continuous advertising has created a steadily increasing demand for these high-class productions, and a display of the dainty and attractive Royal Vinolia packs illustrated on this page will ensure you a full share of this very profitable business.

The Vinolia Company's range of Toilet Requisites for both Ladies and Gentlemen is a very extensive one. These Requisites are all alike perfect.

VINOLIA COMPANY LIMITED, LONDON.
Offices and Works; Bebington, Cheshire.

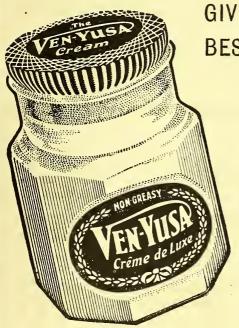




# THE ONLY POPULAR SHILLING FACE CREAM ON THE MARKET

# Ven-Yusa Cream

IS STILL ONE SHILLING.
GIVES YOU 33\frac{1}{2}\% PROFIT ON SALE
BEST TERMS FOR **50**/- PARCEL





DAINTY AND ATTRACTIVE FOR THE COUNTER.

BEAUTIFUL SHOWCARDS SUPPLIED.

Any War Packages (Plain Corks) exchanged Free of Cost.

Write for Window-Show Terms to

C. E. FULFORD, Ltd.

CARLTON HILL, LEEDS.

# A. S. LLOYD'S EUXESIS

(THE GENUINE).

For Shaving without Soap, Water, or Brush.



#### A. S. LLOYD'S EUXESIS

FOR SHAVING WITHOUT THE Use of SOAP or Water.

DIRECTIONS FOR USE.

Unscrew the cap at the top, and gently press the broad end, always taking c: reto do so from the bottom, by which the tube is rendered perfectly air-tight; when enough is obtained apply it to the beard either with a small soft brush or the finger, rubbing it a little; then apply the razor, and although but little of the Eursess be seen on the face, the beard will be removed with the greatestease and comfort. It will be found very beneficial to wash before shaving. It is not intended to make a lather like soap. When the tube is not in use, be sure to screw on the cap again. is not in use, be sure to screw on the cap again. Sold in Collapsible Tubes, at 1s. 6d. and 3s. By the Original & Sole Manufacturer & Proprietor



#### Sold by all Perfumers and Chemists throughout the World.

R. HOVENDEN & SONS having purchased, under an administration suit, the Business of the late A. S. LLOYD, with the Receipt, Trade-Mark, and Goodwill of the celebrated Euxesis, the Trade are cautioned that the original and genuine Euxesis is now manufactured at our Factory ONLY, and may be obtained at either of our Warehouses.

PRICES ON APPLICATION.

NOTICE.—THE GENUINE A. S. LLOYD'S EUXESIS bears a label printed in BLACK only on a Yellow ground, with our Trade Mark at the bottom, as Illustration.

Proprietors: R. HOVENDEN & SONS, LTD., LONDON: 29-33 Berners Street, W.; and 89-95 City Road, E.C.

# TELMO

# Double Strength for FRECKLES

Advertisements will appear in the leading Dailies, beginning April 1—until Autumn.

PRICE 40/- per doz. to Retailers. Sells at **54**/-

Minimum Retail Price 4/6

Sold only in one-ounce pots. Your Wholesaler will supply you.

# TELMO LABORATORIES,

33-34 Temple Chambers,

Temple Avenue, LONDON, E.C. 4

# SALES BEAT ALL RECORDS.

KEEPS AWAY MOTH. LASTING & FRAGRANT.



FOR LINEN CUPBOARD AND WARDROBE.

On the P.A.T.A.

Retail Price 6d.

Of the Makers:

WILLIS, LOW & DRUIFF, LTD.,

6 Mortimer St., London, W.

AND ALL WHOLESALERS.

# A. S. LLOYD'S EUXESIS.

For Shaving without Soap, Water, or Brush.

# CAUTION.

The Labels on GENUINE EUXESIS bear two signatures—
A. S. Lloyd in Black Ink, and that of his Widow,

Aimée Lloyd, in RED. Refuse any other.

Sole Manufacturers and AIMÉE LLOYD & CO.

23 PANTON STREET (formerly named Spur Street), HAYMARKET, LONDON, S.W.

N.B.—When ordering from Wholesale Houses write LLOYD'S EUXESIS (WIDOW'S).

# Profit by the Growing Demand for Snowfire.

Large numbers of women doing outdoor or indoor work are buying Snowfire regularly. They have discovered its cleansing, softening and beautifying influence upon the skin—how it keeps the hands white and dainty.



#### **TABLETS**

Sell freely all the year round. Specially valuable in Winter for Chapped Hands, Cracked Lips, or Roughened and Irritated Skin.



Well advertised. Shows good profits. Attractive publicity matter free. Goods carriage paid to your door. For Price List write

F. W. Hampshire & Co.

RIVERSIDE WORKS, DERBY

BE SURE AND ADD

# La-Rola Rose Bloom

TO YOUR STOCK AT ONCE,

as it is being largely advertised in the "Daily Mail," "Mirror," "Sketch," etc.

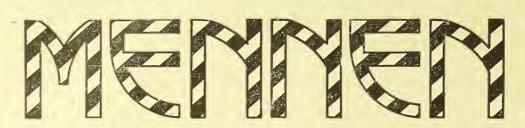
Do not lose the business through being out of stock.

It is the most natural tint on the market, and is selling well wherever introduced.

# Lait La-Rola & Glycerine & Cucumber

All these articles are protected at FACE VALUE.
Write for Display Terms and save 10%.

M. BEETHAM & SON, Cheltenham.



# SHAVING CREAN

The hermetically sealed tube in which "Mennen" is supplied guarantees a shaving cream for sale in perfect condition always. No deterioration-no loss. The buyer appreciates this clean hygienic method of packing. One sale makes a permanent satisfied customer and this latest shaving luxury is rapidly gaining favour.

# Why it appeals to men—

- Half an inch of Mennen will soften the toughest beard. It holds three times as much moisture as any other lather and will not dry on the face.
- Mennen contains no caustic.—It softens the beard without inflaming the skin with finger rubbing. A magnificent foamy lather is obtained with either cold or hot water worked up with the brush only.
- Mennen contains a soothing, refreshing lotion and leaves the skin delightfully smooth. There is no tingling or smarting when Mennen Shaving Cream is used.

#### TRADE PRICE.

3 dozen, 2½% discount. 1 gross, 10% discount. 16/6 per dozen. P.A.T.A. Selling Price, 1/9 per tube.

OTHER MENNEN PRODUCTS

MENNEN TOILET MENNEN VIOLET POWDER.

TALCUM.

MENNEN FLESH TINT TALCUM. FOR MEN.

TRADE PRICE: 10/9 per dozen.

1 gross 10% discount.

3 doz. 2½% discount. P.A.T.A. Selling Price, 1/3 per tin.

Carriage paid on quantities of 3 dozen in assortment. Quantities may be assorted not less than 1 dozen of any kind.

# PRODUCTS OF THE MENNEN CO.

FASSETT & JOHNSON LTD.

86, CLERKENWELL ROAD, LONDON, E.C. 1.

# A POPULAR NEW LINE.

# EXTENSIVE ADVERTISING TO START AT ONCE.



Mulsified Cocoanut Oil Shampoo is a thoroughly reliable preparation for effectively cleansing the hair and scalp. It is a clear, pure product free from alkali, and therefore does not dry the scalp or cause the hair to become brittle, and may be used freely and as often as desired.

# MULSIFIED

TRADE MARK

# COCOANUT OIL SHAMPOO

is attractively packed in a fourcolour carton and will sell readily on display.

P.A.T.A. Protected - 2/6

per 22/6 dozen.

3 dozen (less 2½%) Carriage Paid,

12 ,, ,, 5% ,, ,,

All wholesalers have stocks on hand, and we invite you to place order to meet immediate demand.

FASSETT & JOHNSON, Ltd., 86, Clerkenwell Road, London,



# SAPON SOAPS SELL



Hundreds of Orders direct from the Public.

An Ornament to the Counter.



#### We want YOU to have this Business.

You should sell Sapon Skin Soaps:-Because we, the makers, are entirely unconnected with any Combine.

Because Sapon Skin Soaps once used are always ordered. You will have a steady sale and the satisfaction of knowing that you are supplying the best. (Sapon Skin Soaps are recommended by many eminent Doctors.)

Because Sapon Skin Soaps yield a larger profit to you than any other make, while still being sold to the Public at a

Write to-day for full particulars to

LONDON BRIDGE.

E.C. 4.





# Dental Cream istinction

IN THE FOLLOWING FLAVOURS-

Formalin & Mint Oxygen Areca

Carbolic Smokers' Thymol

Cherry

(2) (2) (2)

A first-class article, attractively packed which cannot fail to bring repeats.

CHARTERHOUSE SQUARE, LONDON, E.C. 1

# A. GIDLOW & CO. (ESTABLISHED 1896.) BROOM LANE, LEVENSHULME, MANCHESTER. MANUFACTURERS OF SHAVING CREAMS Packed in 1 lb., 2 lb., 7 lb. Boxes and 56 lb. Cases. Also Packed in Collapsible Tubes. Proprietors and Manufacturers of RENARD'S POMADE HONGROISE. Samples and Prices on application. Wholesale only.

# HOVENDEN'S Popular TOILET PREPARATIONS



No. 1497. 16/-, 29!- & 53/- Doz.

#### FLORAL HAIR CREAM.

Fixes and Imparts Brilliancy to the Hair and is Non-Greasy.



Preparation now in Great Demand

No. 4620. 12/6 per doz.

An Extra Bottle as every dozen of the



and Rising in Popularity.

No. 4619. 7/- per doz.

Bonus given with No. 4620 size.



No. 4707. 44/- & 81/- Doz.

#### POUDRE COMPACTE PARISIENNE.



SHADES: Blanche, Rachel, Naturelle, Rose, Brunette. 108/- Gross; 9/6 Doz. MME. STE. CROIX'S POWDER BOOKS.

SHADES: Rose, Naturelle, Rachel, Blanche.

40/- Gross; 3/6 Doz.



MME. STE. CROIX'S POUDRE DE RIZ.



SHADES: Rose, Naturelle, Rachel, Blanche, Assorted Perfumes. 30/- Gross; 7/- Doz.

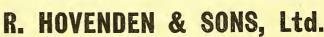
# MARRIS'S ALMOND TABLETS.

In use over 30 Years.

Invaluable for Chapped Hands and Lips. Will improve the appearance of the Hands, however neglected they may have been. Each Tablet is put up in an Artistic Enamelled Box, as illustration. We shall be pleased to supply Showcards.

-/9 box, 5/6 per dozen; 1/3 box, 9/9.

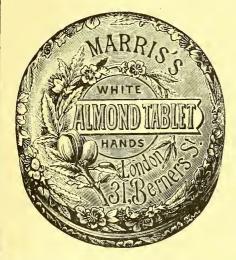
Subject to 2½% Cash Discount: A copy of our Monthly Illustrated List will be sent on application.



29, 30, 31, 32 & 33 BERNERS ST., OXFORD ST., LONDON, W.1.
Tel. No.: Museum 2810 (3 lines).

And 89, 91, 93 & 95 CITY RD., FINSBURY, LONDON, E.C.1.
Tel. No.: London Wall 6260 (2 lines).

Factory: 41 to 53 BRITANNIA ROW, ISLINGTON, N.



# "ERASMIC" Shaving Sticks.

Retail Selling Prices:

Stick in Blue Enamelled Tin 1/3. Stick in Nickel Case . . . 1/6.

"ERASMIC," Perfumers, WARRINGTON.

March 1, 1920.



# London's Famous Stars Use and Recommend Fragrant

# CINEMA SOAP

The Cream Soap "Exquisite"

# WILL MAKE YOUR FACE A PICTURE

Trade Mark Copyright at home and abroad

# Our Special Offer

Cinema Soap is wrapped and packed three tablets in a box which retails at 2/6, single tablets sell at  $10\frac{1}{2}$ d. each. Our price is 22/6 per dozen boxes. Every Chemist sending for one dozen boxes within 14 days will receive

Three dozen Cinema Crushed Rose Face Powder Free, together with sale cards, cinema photos, and advertising matter; also we will send, by special arrangement with the Amalgamated Press, Ltd., 500 copies of "The Picture Show" free of charge. Just figure this value out and send without delay. Cross cheques and P.O.s.

THE CINEMA SOAP COMPANY, Ltd., (Dept. 22) 22 Finsbury Park Rd., London, N.4.

Mr. Fred BARNES, writing, from the London Palladium, says:—"Cinema Soap is without question the best and most delightful soap for the skin I have ever used, whilst Cinema Dentifrice is a wonderful preparation. For along time I have been trying to discover a dentifrice which actually does whiten the teeth without injury. Hundreds of preparations claim to do this, but all they really do is to polish up the surface. I have used Cinema Dentifrice with splendid results. Not only does it make the teeth snowy white, but it has, I find, a tonic effect on the throat, a fact very important to all artistes. Ithink it is a wonderful preparation, and gladly recommend it to my brother and sister artistes.—Faithfully yours, FRED BARNES."

Miss VIOLET VANBRUGH and hundreds of other well-known stars use and recommend these super-toilet specialities. They are the latest and best in the world.

# THREE GOOD SELLERS THAT PAY WELL

# FROZOCLONE

(The original solid Eau de Cologne).

(Regd.)



THE WORLD'S GREAT PERFUME AND REFRESHER IN SOLID FORM

Retails (P.A.T.A.) Minimum - 3/giving at least 10d. Profit on each sale. per doz.

PROZOCLONE is a convenient form of the finest Eau de Cologne, refresbing when rubhed on the forehead, equally pleasant as a smelling bottle, invaluable in a heated atmosphere and when motoring.

# CARNATE (Reggl).

A NAIL POLISH PASTE with new and distinctive features. Antiseptic—Softens the cuticle—Brilliant and lasting polish.

Retails (P.A.T.A.) minimum 1/6; 12/- per doz.

Pat. No. 310716)



The Ideal Fruity Laxative in Pastille Form.
DELICIOUS. RELIABLE. EFFECTIVE. Retail (P.A.T.A.) Minimum 2/3 21/- per doz., stamped.

# H'S LABORATORIES, Montrose Avenue, LONDON, N.W. 6

Telegraphic Address: "Boulbene London

68 Salusbury Road and

Telephone: 525 Willesden.

Has been CONSISTENTLY ADVERTISED in the best AMERICAN and CANADIAN PERIODICALS for twenty-five years.

A Medicinal Toilet Cream with a world-wide demand that is rapidly increasing. Two sizes: 2/-, per dozen 16/-; 4/-, per dozen 32/-Prepaid Parcel Post to Great Britain and her Asiatic and African Colonies. Samples and store displays free with every order.

½ Doz. Ingram's Milkweed Cream ... ... Retails 2/-Price 8/6 Doz. ,, .8/6 Velveola Souveraine (Face Powder) .. 2/-½ Doz. ,, 1/-Zodenta Paste for the Teeth 4/4 1 Doz. Rouge, Light Medium, Dark ,, 2/-4/4 d Doz. Perfume, 1 oz. assorted in fancy ,, 4/-,, 18/packages ... 100 Guest-Room Packages free. £2. 3. 8

#### Shipped via Parcel Post Prepaid.

Send us with your order the names of 100 of your lady customers, and we will mail each of them a handsome folder, inviting them to call at your store and get our Guest Room Package free, containing one each of the above in sample sizes, including Perfume.

If more convenient to you, specify shipments from our Canadian Plant.

FREDERICK F. INGRAM COMPANY (Established 1885). 411 Lafayette Boulevard, Detroit, U.S.A. Canadian Plant; Windsor, Ont.



Twenty-five years continuous advertising has made this trade mark known wherever American and Canadian publications are

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# COMBS

Large Variety in Stock

Immediate Delivery

# SHAVING BRUSHES

Guaranteed Free of Anthrax

# HYPODERMIC SYRINGES

(French)

All Manicure Requisites

WHOLESALE AND EXPORT ONLY SUPPLIED

# A. E. DEPRETER

24 HOLBORN, LONDON, E.C.1

Telephone: Holborn 3182

Telegrams: "Aedeprelon, Smith, London."



#### EXTRA PROFIT FOR NOTHING!

Safeguard yourself from the Profiteering Act by returning your stock of

#### WAR QUALITY "VELDT" CREAM,

which is priced  $3\frac{1}{2}$ d., 9d., 1/3, and 2/6.

We will exchange it and send you the pre-war quality, bottle for bottle, now priced (P.A.T.A.) respectively 5d., 1/-, 1/9, and 2/9, with new Showcards. In addition to being

#### PRE-WAR QUALITY "VELDT" CREAM,

it is now made to impart to the skin the odour of freshly-gathered violets.

N.B.-We pay carriage one way.

The VELDT LABORATORY, LOUTH, ENGLAND.

# **STRODONIA**

Vanishing Cream.

NOW SUPPLIED IN

# SCREW - CAPPED JARS

10½d. size—7/6 doz. 1/3 size—10/6 doz. FROM LONDON WHOLESALERS.

Direct orders value £5, subject to 1 doz. 1/3 size Bonus for window display a: d 5% discount cash, one month; £2/10/0 subject to ½-doz. 1/3 size Bonus for window display, net.; £1/10/0 subject to ½-doz. 1/3 size Bonus for window display, net.. Carriage paid on £1/10 0 upwards.

STRODE COSH & PENFOLD, Broadmead, BRISTOL.

Well Advertised.

Dainty.

# "OASIS" TOILET PREPARATIONS

are IRRESISTIBLE.

You have only to show them to sell them and reap the "OASIS" PROFIT.

If you do not already hold stocks, write at once for full particulars and prices to—

THE GENERAL CHEMICAL AND PHARMACEUTICAL CO., LTD. 57-59 CHURCH ROAD, WILLESDEN, N.W. 10. Quick Selling. Profitable.

Trade VASE INE Mark

PETROLEUM JELLY

IN TUBES.

We are now in a position to execute all orders for—

"Vaseline" Analgic

"Camphorated "", Camphorated "", Capsicum "", Capsicum "", Capsicum "", Carbolated "", ", Eucalyptol "", Mentholated "", ", Oxide of Zinc Ointment.

CHESEBROUGH MANUFACTURING CO. CONS'D.

42 HOLBORN VIADUCT, LONDON, E.C. 1.



SAMPLES AVAILABLE

C. A. STOKES & CO., Ltd., 11 Eclipsol Works, BRISTOL

WE ARE ACTUAL MANUFACTURERS OF

# OWDER PUFFS

Send for Price List of our Special Lines of Wool Pads and Mignonnettes.

WHOLESALE AND EXPORT ONLY.

BRUSSELS.

THEO. VAN DER HEYDEN,

118-122 HOLBORN, E.C. 1. Tel.: Holborn 1873.

PARIS:

17 Rue de la Grange Batelière.

A E Consesses

# ALKIA SALTRATES \*\* REUDEL BATH SALTRATES

The extreme height of perfection in salines. The best that can be produced regardless of cost. (3/3 P.A.T.A.).

The best of all bath preparations, either for medicinal or general toilet use.

(2/- and 3/3 P.A.T.A.).

They never stay long on your shelves, because they please the customer EVERY TIME.

Never Let Your Stock Run Too Low.

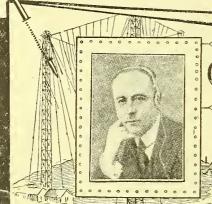
NO STOCK - NO SALES.

#### A LETTER THAT EVERY CHEMIST SHOULD READ.

"Do I still have to travel to Continental Spas?, No, NO,—n'n'n' NO. I take my cure at home,"

Says GEORGE ROBEY, the inimitable comedian, who, like Harry Lauder and numerous others amongst the really great stars of the theatrical firmament, has joined the long list of prominent men and women who have used our Saltrates with results so pleasing that they have kindly written us in grateful acknowledgement of the wonderful benefits derived. No other preparations in the world have ever received such endorsement. The following letter is here reproduced by special permission.

SALTRATES, LTD.



To the Manager

GEORGE ROBEY'S S.O.S.

Tranbourne Street

LONDON.W

Saltrates Ltd., 214 Great Portland Street, W. 1.

March 8th. 1920.

Dear Sir: That was a good turn you did me in donating the supplies of Alkia Saltrates and Reudel Bath Saltrates that I ordered for the hospital. The favour is appreciated by me as much as the Saltrates are appreciated by all who use them, myself of course included. No one can accord anything higher praise than that

Personally, I never could be sure of remaining in perfect bodily health and comfort without always having both Alkia and Reudel right where they are handy when wanted. I needed these Saltrates of yours long before commencing to use them, years ago. "Oh! How can I tell you my feelings" in those days. Now, I have no more internal or external aches or pains, no more tired feet or muscular strains. Do I still travel to Continental Spas? No, NO - n'n'n' NO! I take my cure at home.

I realise that every manufacturer appreciates the testimony he knows his products deserve, and it gives me pleasure to acknowledge the benefits derived in my own case. If you consider that my recommendation may be useful in helping others help thomselves by using Alkia or Reudel, I have no objection to your quoting this letter.

Yours gratefully

W IIIIIII

# There are many cheaper Creams than Tokalon—but your Customers don't want them. There may be better Creams than Tokalon—but just try to find them!

CRÈME TOKALON



PRICES 1/3 & 2/-

With the help of our advertising, you, Chemist, have to sell Tokalon cream powder to your customer the first time, but from then onward they sell themselves. After once testing these remarkable products the customer will not feel satisfied with any others.

Why it is that Elsie Janis finds Crème Tokalon so different from all others.

Crème Tokalon ime parts marvellous beauty to the complexion because it contains buttermilk and other skin-preserving and nourishing ingredients found in no other Cream.

THE PERSON NAMED IN

COMPLEXION PERFECTION is merely a matter of using ronounced Toke-a-lon



What Elsie Janis says about

#### CRÈME TOKALON & POUDRE TOKALON.

"Carefully choose a good cream and a good powder, both made by a responsible manufacturer. Try them care ully, noting the exact effects. If satisfactory adopt them for regular use and never touch any others. I even advise going so lar as to have cream and powder analysed by an expert chemist. This will be somewhat costly at first, but it may save you money in the end. It may even save your complexion. The cream must not only be absolutely pure, but it should be non-greasy. The powder should be of extreme finene s. I personally use Crème Tokalon and Poudre Tokalon. No one could ever persuade me to use any others."

POUDRE TOKALON



PRICES 1/9 & 2/11. In compressed form (Comprimes) 1/3 each.

Our goods, bought on best terms, Show you

57% PROFIT

on your Outlay.

Show-Cards sent free on request.

Carriage Paid on all Orders for 3 doz. or over.

Why it is that Elsie Janis finds Poudre Tokalon so different from all others.

The extreme fineness of Poudre Tokalon, as mentioned by Elsie Janis in her letter, is produced by the "air-floating" process which we use exclusively in manufacturing the powder.

YOU SHOULD ALWAYS KEEP THESE TWO QUICK-SELLING LINES IN STOCK.

TOKALON LIMITED, 212-214, Great Portland Street, London, W.

The second secon 100000000

# Good Profits Rapid Sales

BY SELLING

(No Sugar Required).

THE BUSY SEASON is approaching rapidly. Place your order NOW for G.O. Lemonade to prevent delay and disappointment later on. Our new 1/3 Tin is going to be a "big seller." It makes 2 gallons of splendid Lemonade, and keeps its full flavour almost indefinitely.

BONUS PARCELS may be varied to customers' requirements so long as they total 50/- value,

Phone-GREENWICH 947.

#### BONUS PARCELS.

The two following suggested BONUS PARCELS comprise all the Sizes and show you a clear Profit on Turnover of over 331 per cent.

No. 1 Parcel.-1 gross 2d. = dozen  $3\frac{1}{2}d$ . =  $1\overline{0}$ 1 dozen 1/3 6

> 10 6

(1 dozen 6½d. free in payment for display).

No. 2 Parcel.-1 96 gross 2d. dozen  $3\frac{1}{2}d. =$ dozen  $6\frac{1}{2}$ d. = 6 2 dozen 1/3

> £2 11 9

1 dozen 62d. free in payment for display. Scnt Carriage Paid direct for Cash with order, or through your Wholesale House.

(J. Milner, M P.S., Proprietor)

JOHN PENN ST., LONDON, S.E. 13.

Lines found very suitable for high-grade  ENGLISH TRADE.  No. 675 Bone Handle Per gross 26/-  "1151 Celluloid Handle ", "47/-  "1017 Bone Handle ", "34/-  "1709 Celluloid Handle ", "34/-  "1916 Bone Handle ", "59/-  "2204 ", ", ", ", ", ", ", ", ", ", ", ", ",	BRUSHES for EXPORT
2)	Lines found very suitable for high-grade  ENGLISH TRADE.  No. 675 Bone Handle Per gross 26/-  "1151 Celluloid Handle " " 47/-  "1017 Bone Handle " " 37/-  "1709 Celluloid Handle " " 34/-  "1916 Bone Handle " " 59/-  "2204 " " " " " 70/-  "2205 " " " " " 71/-  "2706 " " " " " " 71/-  "2706 " " " " " " " 71/-  "2706 " " " " " " " 71/-  "2706 " " " " " " " " 71/-  "2706 " " " " " " " " 11/-  "2706 " " " " " " " " " 11/-  "2706 " " " " " " " " " 11/-  "2706 " " " " " " " " " " " 11/-  "2706 " " " " " " " " " " " 11/-  "2706 " " " " " " " " " " " " 11/-  "24 Nakayamate-dori 2-chome,  KOBE, JAPAN.  Cable Address: "SIMSLAND."  Codes: Bentley's, Western Union, ABC, 5th Edit.  Entirely British and American Owned.

#### RELIABLE TOOTH BRUSHES.

Gloria Silverdrawn **20**/- doz. (Assorted Patterns.) ditto Hard, White or Yellow 22/-24/ditto Ex. hard ,, 16/~ Mitre 14/~ Elephant Anchor 12/-

GROSS LOTS NAMED FREE. CARRIAGE PAID.

We do not Sell Foreign Tooth Brushes, but our own make only.

A selected £12 parcel of Hair Brushes from 50/- to 150/- per doz., carr. paid.

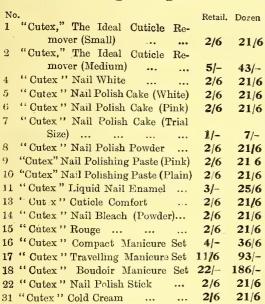
Made at our Factories, AXMINSTER, DEVON

# "CUTEX" NAIL PREPARATIONS

NORTHAM WARREN CO., MONTREAL AND NEW YORK

YOU ARE LOSING BUSINESS IF YOU ARE NOT CARRY-ING A FULL STOCK

# "CUTEX" Manicuring Preparations



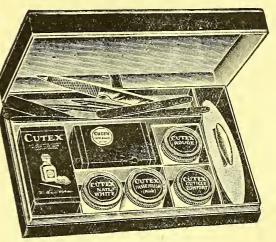
THESE PREPARATIONS CAN
BE OBTAINED FROM ALL
WHOLESALE HOUSES



No. 16 COMPACT SET



No. 17 TRAVELLING SET



No. 18 BOUDOIR SET

SOLE AGENTS:

HENRY C. QUELCH & CO. 4 & 5 LUDGATE SQUARE, LONDON, E.C. 4



# The House of BAISS

established in London nearly a century ago, is now one of the foremost houses for the Manufacture and Supply of

# FINE CHEMICALS

for Medicinal Purposes.

# DRUGS.

# PHARMACEUTICAL PREPARATIONS of All Kinds.

ESSENCES and ESSENTIAL OILS.

# HOSPITAL EQUIPMENT and SURGICAL INSTRUMENTS

etc. etc.

Quotations given, and goods Packed for Shipment to all parts of the World.

PRICE LISTS IN VARIOUS LANGUAGES.

# BAISS BROTHERS & COMPANY, Ltd.

Wholesale and Export Druggists, Manufacturing Chemists and Makers of Surgical Instruments.

Contractors to His Majesty's Government; the Crown Agents for the Colonies; various Foreign Governments; and the principal Hospitals and Institutions at Home and Abroad.

Grange Works, 174, 175, 176 GRANGE ROAD, BERMONDSEY, LONDON, S.E. 1
Drug and Herb Farm: CARSHALTON, SURREY.

# Mother

# Seigel's Syrup

and the

# P.A.T.A.

Mother Seigel's Curative Syrup and all our other Proprietaries are now placed upon the P.A.T.A. List and protected at Face Values.



The following prices and terms apply only to GREAT BRITAIN.

Our Price List for IRELAND may be obtained from any Wholesaler in Ireland, or direct from A. J. WHITE, Ltd.



#### ONE SIZE ONLY.

Owing to the incidence of the Revenue Stamp duty, and the greatly increased costs of production and distribution, we have found it impossible to grant adequate discounts to the Trade on the sale of the small size (1/3) bottle of Mother Seigel's Syrup. Accordingly we have decided to discontinue issuing this size (1/3) in

Great Britain as from March 25, 1920.

In adopting this bold course, we are acting in line with the interests and wishes of the Trade generally, and we confidently rely upon your goodwill and assistance in encouraging former purchasers of the 1/3 size of Mother Seigel's Syrup to buy the 3/- bottle which is now the only size issued.

# Our New Trade Prices Showing 25 % Profit.

	Face Value & Minimum Selling Price			
Mather C	3/-	Perdoz. 27/-		
Mother S	) 3/-	4//-		
• •	,,	Syrup Tablets	3/-	27/-
,,	, ,	Operating Pills	1/3	11/3
,,	,,	Soothing Plasters	1/3	11/3
, ,	,,	Ointment	. 1/3	11/3
,,	19	Malt Cough Balsam	1/3	11/3
Kno-Ska			1/3	11/3

Minimum Parcel £2: 10 : 0 net, Cash with Order. Carriage Paid and Packages Free.

#### Your Old Stock.

As the Face Value and Protected Price of Mother Seigel's Syrup is now 3/-, and you may

still have in stock some bottles marked 2/9, you can obtain from your Wholesaler, or we shall be pleased to send you, on

The Manutacturers of
MOTHER SEIGEL'S SYRUP
regret that owing to the greatly
increased costs of production and
distribution, they have been compelled
to advance the price of this package to

THREE SHILLINGS.

It contains 75 average doses. Each dose, therefore, costs less than one half-penny.

request, a supply of "stickers" as shown here. (Two "stickers" required for each bottle.)

# SPECIAL ADVERTISING OFFER.

On orders to the net value of £5 and over, conditional upon settlement being made within 30 days from date of invoice, a discount of 5% will be allowed to dealers who undertake to make, within one month from receipt of goods, an effective Window or Counter display of a portion of the goods, and of the small Showcards accompanying them.

The goods will be sent carriage paid and packages free.

This offer makes possible a profit of practically 30 % on turnover, or nearly 10½d. on the sale of each bottle of Mother Seigel's Syrup.

Orders may be sent through your Wholesaler or direct to

A. J. WHITE, Ltd.

35 FARRINGDON ROAD, LONDON, E.C. 1.

# INCREASED PROFIT ON NEW PRICE

3/6

instead of 2/9

A S from March 1st, 1920, the New Retail Price of 3/6, instead of the old Pre-war Price of 2/9, will come into operation



THE New Retail Price will mean increased Profit for the Chemist, A CLEAR PROFIT of 20% will be obtainable on the smallest quantities.

# A FURTHER 5% PROFIT

may be obtained by ordering a 6-dozen Parcel from any of the Wholesale Houses.

# NEW PRICE LABELS

For any old-price stock on hand, sent post-free on request direct to

# S. KUTNOW & CO., L<sup>D</sup>

41 Farringdon Road, London, E.C. 1,

Who tender hearty thanks to all Chemists for past and future co-operation.



# Another Example of UCAL Free Advertising Service.

This much-reduced illustration gives some idea of the Ucal "Broadsheet" of stereos, which is issued monthly.

Actually the sheet measures 20" by 15", and shows full-size proofs of advertisements to fit various spaces from one inch single column up to six inches double column.

These stereos are supplied free of charge to Ucal members. Well-written ads., effectively displayed to attract the roving eye and to do credit to the man whose name they bear. No need for a Ucalite to worry about the poor selection of type offered by his local newspaper—or the difficulty of obtaining decent typesetting.

Here, ready to hand, is an easy way of making his ad. as effective as any in the paper, size for size.

Ads. like these cannot fail to sell goods if inserted in a newspaper with any effective circulation.

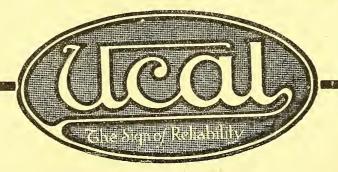
So, perhaps, the most difficult problem of the advertising pharmacist is solved for him—if he be a Ucalite.

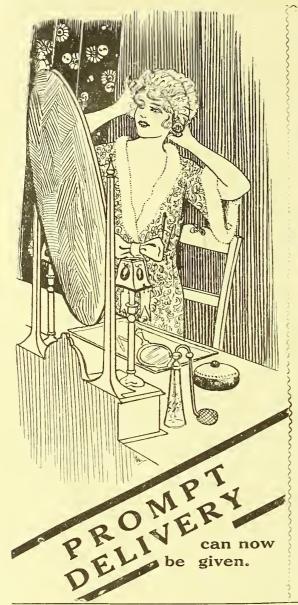
Pharmacists are being admitted to membership of Ucal as quickly as practicable, consistent with due service to existing members.

Are you on the waiting list?

UCAL

**CHELTENHAM** 





## **Every Woman knows**

the value of the finishing touch to her appearance: she knows, for instance, that by slippingon a dainty cap she will secure elegance for her bouldoir toilet.

## **Every Chemist knows**

how the appearance of his counter- and window-display is improved by daintily capped bottles. And if the caps used are

# SEMREH BOTTLE CAPPINGS

they assure him, in addition to

#### ELEGANCE,

two important factors making for

#### ECONOMY.

- 1. SEMREH CAPS are easy to put on, are SELF-FITTING and SELF-FIXING. No string, adhesive or elastic bands are required.
- 2. SEMREH CAPS retain their appearance longer than paper or split skins, because dust does not readily adhere to them, and they are unaffected by damp or chemical fumes. Finally, they are readily cleaned by wiping over with a damp cloth.

THE Illustration shows the simple operation of placing the wet SEMREH CAP over the stopper and neck of a bottle. It then appears as shown on the left. Nothing remains to be done except to let the cap dry. As it dries it shrinks and fits itself to the shape of the bottle neck and its stopper, sprinkler, or cork, thereby providing an artight, spirit-proof, hermetic seal, as shown on the righ.

The advantages are obvious: the perfect, automatic, hermetic closure, elegant of appearance, washable, and of great strength; all secured without skill, and with only about three seconds' labour. Your boy can do it. Consider what this means in LABOUR-SAVING.

DRY->
Self-fixed

-WET
as applied

A fully descriptive, illustrated Booklet, with any special information desired gladly sent on application.

# THE VISCOSE DEVELOPMENT CO. Ltd.

BROMLEY, KENT, ENGLAND.

# SPECIAL OFFER!

We can safely say that no other firm in London has such a varied stock. Even if you are wanting a special line which we do not happen to have in stock, there is always an alternative one we can let you have.

The following are some of the lines we offer:

SQUAT KALIS, green, 2 oz. size.

KAY'S ESSENCES, green,  $2\frac{1}{2}$  oz. size.

KALIS, green, 4 oz. size.

KALIS, flint, 1, 2, 4, 6, 8, 10, 12, and 16 oz. LIMES, flint, 2, 4, 6, 10, 12, and 20 oz.

LIMES, green, 1 and 4 oz.

MEDICALS, first and second quality, green, plain, and

graduated, 4, 6, and 8 oz. Also tinted blue.

MEXICANS, flint,  $1\frac{1}{2}$  and 2 oz. sizes.

PANELS, green, 4 oz. PANEL TOBINS, green, 2½ oz.

PANELS, flint, 1 and 2 oz. sizes.

VIALS, green, 1 and 2 oz. sizes.

VIALS, flint, all sizes; from half-dram. Long series.

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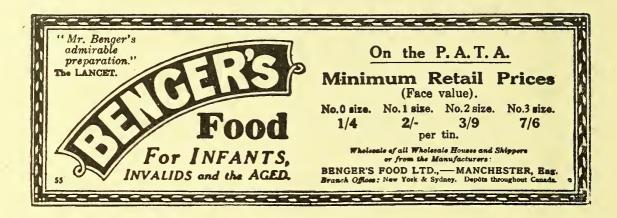


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Subscription Rates. TWENTY SHILLINGS a year payable in advance to any part of the world, including a copy of The Chemist and Druggist Diary. Subscriptions may begin with the first issue of any month. Single Copy 9d, post free; Diary, 5s, post free. Postal orders and cheques should be crossed "Bank of Liverpool and Martin's Ltd."

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WILL contributors and advertisers please note that THE CHEMIST AND DRUGGIST and the Coloured Supplement close for press next week a day earlier than usual—viz., on Wednesday, March 31? It will help us considerably if matter for insertion in the next issue is sent as promptly as possible.

#### Proof Spirit Conversion Tables.

A REPRINT of the Proof Spirit Conversion Tables published in The Chemist and Druggist, December 27, 1919, is now ready. It is in the form of a four-page pamphlet of the size of this page. A charge of 4d. a copy (post free) is made for the reprint.

MR. CHARLES EDWARD GROVES, F.R.S., F.I.C., Kennington Green, London, S.E., who died on February 1, has left a fortune of the value of 33,022*l*. 13*s*. 11*d*., the net personalty being 32,857*l*. 8*s*. 11*d*. The testator gives 1001. each to his nephews and nieces and the executors, 20,000l. in trust for his five sisters for life, and on the death of the survivor of them 10,000l. to the Royal Insti-tute, Albemarle Street, W., for the "Groves Endowment Fund" for the promotion of scientific research.

## Experiences of the Great War.

Contributions to this section are invited.

#### XXXIII.—The Lot of a Quartermaster.

Some knowledge of chemistry and pharmacy, such as one acquired for the Pharmaceutical Society's examinations, has a way of "coming in handy" in unexpected places. But I cannot pretend that it proved of much value to me as a quartermaster of an infantry battalion during the war. Medical stores I had nothing to do with—this being entirely a matter for the medical officer of the unit and his senior medical orderly. The medical orderlies that I met included a professional singer, a bank clerk, and a youth fresh from a secondary schooleach and all of whom apparently felt fully equal to the responsibility of diagnosing disease, prescribing and dispensing medicines, and performing certain surgical operations. The only stores having any connection with the drug-trade which I had to obtain were the field-dress-ings, "cresol' (namely, liquor cresol, saponatus in fivegallon drums), and chloride of lime. enormous quantities of which were needed both in and out of the line for purposes of disinfection; and whale oil for the daily rubbing of feet as a preventive of "trench feet" during the winter months. I have heard the most heated arguments as to whether there was any virtue in the whale oil itself, or whether the oil was a mere "placebo" encourage vigcrous rubbing, and I do not know myself the true answer to this vexed question. I was expected to take an active interest in the matter of the conservation of fat, particularly dripping, which had to be rendered and returned to the base; and, towards the end of the war, I had to arrange for the preservation of the solder from the tins which had contained bully, jam, sardines, and the like. This involved the construction of special incinerators with a slow draught, and the subsequent burning off of dross so as to produce bars of solder in a tolerably pure state. Many millions of pounds must have been wasted by failure to organise the recevery of solder until the later stages of the war. I had "proceeded" (a blessed word this in the military vocabulary) overseas before the recovery of grease from the washing-water in barracks and camps at home had been properly organised, and nothing in this branch of salvage could be attempted in the field. My service included, in addition to a trying spell in France and Belgium, a year in Italy, where the British troops had, on the whole, a comfortable time. Taking up rations night after night to battalion headquarters in the line was not a pleasant experience in France and Belgium during 1916 and 1917, and the fact that I was never hit by a shell is not to be ascribed solely to my efforts at self-preservation. I had several narrow escapes, and company officers often told me that they preferred to spend a week in the front line to my task of journeying up from the transport lines and back again each The quartermaster scores, on the other hand, by being able to sleep on some sort of bed, and in pyjamas, nearly every night of the year. I don't suppose I failed to get a proper rest twenty times while on active service. And if one couldn't turn in before 3 A.M. on occasion-well, it was usually possible to have breakfast and to shave in bed at 9.30 or later in the morning. It was rarely difficult to secure a certain measure of comfort in the transport lines. Another delightful part of the life of a quartermaster on active service was that he had more opportunities for riding than other infantry officers. Visits to the Army Service Corps and Army Ordnance Corps officers, from whom supplies are obtained, are necessary several days a week if the quartermaster's work is to be properly done. He also has to keep in fairly frequent touch with the staff captain at Brigade Headquarters, the Q staff at Divisional Headquarters, and the canteens in the district, while the duty of drawing money from the field cashier often falls to the quartermaster's For these purposes a horse is essential, as the distances to be recovered are often considerable. Frequently I had to act as billeting officer for the battalion, particularly when the troops were due to return from the front line. This gave opportunities for airing CC

one's French on French or Belgian civilians, and, in Italy, for improving one's scanty vocabulary of Italian words and phrases. The duties, in fact, of an infantry quartermaster are delightfully varied and by no means devoid of interest and occasional excitement. A quartermaster's efficiency is judged by the measure of comfort which he is able to secure for his unit, and the popular impression is that a Machiavellian "downiness" is the one indispensable qualification. With this should be combined, in the judgment of the fighting men, an entire lack of scruple With this should be combined, in the as to the rights of other units. A quartermaster, it is held, if he is to do his job thoroughly, must be able to bluff, cajole, deceive, and, if need be, steal more efficiently than his fellows. But in these things the pharmacist or other civilian is but a child if he matches himse f against the old hand who has been in the Army all his life. And, to my mind, just as much can be secured by refraining from the attempt to compete in guile if one takes the trouble to get on the best of personal terms with all the officers and warrant officers who control supplies, and remembers always to request, as persistently as you will, but always with a genial smile, rather than demand one's rights. The old hand, guileful as he is, very often takes to blustering, and reveals himself from time to time as one whose demands require to be carefully scrutinised and frequently abated. From Italy one brought away many delightful recollections, both of the Venetian plains in winter and of the Asiago mountain-heights during the heat of the long summer. The welcome given to the British troops by the Italians at the end of 1917 was of the friendliest and heartiest description. The hardworking women of the peasant class excited in return our enthusiastic admiration. They seemed to toil all day in the heat of the sun, either in the vineyards or maizefields, or in washing clothes while kneeling at a wayside stream, or in carrying two heavy water-pails of brightly burnished copper from the village well to their cottages, or in making polenta or macaroni. There remain, too, in the memory the farm-carts drawn by oxen, the splendid churches with their separate belfries towering beside them, and, above all, the glorious Italian skies. The British and, above all, the glorious Italian skies. The British troops in Italy did not have many opportunities of visiting towns. Verona and Vicenza were the most accessible. but many were able to pay a flying visit to Venice, while I was so fortunate as to have a fortnight's leave in which to see some of the sights of Rome, Florence, Naples, Pompeii, and the island of Capri, and also to pay one-day visits to Turin and Milan. All this made up a year ful of variety such as was beyond the wildest dreams of my early pharmaceutical career.

EX-QUARTERMASTER. (91/32.)

# Coming Events.

Saturday March 27.
School of Pharmacy. Old Boys' football match at Sudbury, Pitch
No. 5. Kick-off 3.15 p.m. 'Bus leaves 17 Bloomsbury Square
at 2 p.m. An informal dinner and smoking-concert will follow
at Pinoli's Restaurant, Wardour Street, London, W., at

Wednesday, March 31.

Public Pharmacists' Association, St. Bride Institute, Bride Lane, London, E.C., at 8 p.m. Lecture on "Pathological Specimens and their Preparation," by Mr. Stanley Wyard, M.D. (pathologist to the Children's Hospital, Chelsea, Bolingbroke Hospital, etc.). All pharmacists invited.

EXHIBITIONS.—The Chemists' Exhibition is to be held in the Northampton Polytechnic Institute, London, from April 12 to 16. The Photogrophic Foir is to take place at the Royal Horticultural Hall, Vincent Squpre, Westminster, from April 16 to 24. SHEFFIELD PHARMACEUTICAL STUDENTS' ASSOCIATION.—A fancy-dress ball will be held on April 15 Prizes will be offered. Tickets (4s. 6d. single, 8s. double, including supper) from Mr. I. Best, 55 Brunswick Street, or Mr. G. H. Needham, D.S.M., 105 Bankers' Pool.

Pool.
UCAL FEDERATION (LONDON BRANCH).—The annual dinner will be held at the Connaught Rooms. Great Queen Street, London W.C., on April 15. at 6.30 f.m. Evening dress. Tickets (12s. 6d each) from the Secretary, Mr. G. W. Evans, 239 Hammersmith Road, London, W.

LONDON (WESTERN) PHARMACISTS' ASSOCIATION.—A whist-drive and supper will be held at Pinoli's Restaurant, Wardour Street, I ondon W., on April 14 at 7 P.M. Morning dress. Tickets (6s. each) from Messrs. B. R. Wilkinson. 25 Cromwell Place, London, S.W. 7. and W. Browne, I Avenue Parade, Finchley Road, London, N.W. 3.

## English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

The King's National Roll.

Owing to the peculiarities of the arrangement of names in the King's National Roll, we were unable, when preparing the list printed in our last issue, to find that of Howards & Sons, Ltd., which, we have since discovered, Howards & Sons, Ltd., which, we have since discovered, occurs (with a misprint) in the Essex group. To the same region have also been transferred: F. W. Berk & Co., Ltd., A. Boake, Roberts & Co., Ltd., British Pharmacy Oils, Ltd., Burgoyne, Burbidges & Co., Ltd., Edward Cook & Co., Ltd., Hedley & Co., Ltd., Jeyes' Sanitary Compounds Co., Ltd., J. Knight, Ltd., Lysol, Ltd., J. L. Kose, Spencer, Chapman & Messel, Ltd., George Young, Ltd. Harker, Stagg & Morgan, Ltd., should also have been included. been included.

Easter Holidays.

We have ascertained that the following wholesale houses will be closed from Thursday evening, April 1, to Tuesday morning, April 6:

Allen, Stafford, & Sons, Ltd., 7 Cowper Street, Finsbury,

E.C. 2.

Allen & Hanburys, Ltd., Bethnal Green, E. 2. (Small urgent orders can be executed at 7 Vere Street, W. 1.)

Ayrton, Saunders & Co., Ltd., 34 Hanover Street, Liver-

Berton, Arthur, Ltd., 15 and 17 Worship Street, E.C. 2. British Drug Houses, Ltd., The, 22-30 Graham Street, City Road, N. 1.

City Road, N. 1.

Burge, Warren & Ridgley, Ltd., 91 and 92 Great Saffron Hill, E.C. 1.

Burgoyne, Burbidges & Co., Ltd., East Ham, E.

Burroughs Wellcome & Co., Snow Hill Buildings, E.C. 1.

Christy, Thos., & Co., 4, 10 and 12 Old Swan Lane, E.C. 4.

Curling, Geo., Wyman & Co., 56-59 Bunhill Row, E.C. 1.

Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close, E.C. 1.

Fabra Co., Ltd., The, 24 Minories, E. 1.

Formalin Hysicinic Co., Ltd., 3 Lloyds Avenue, E.C. 3.

Fabra Co., Ltd., The, 24 Minories, E. 1.
Formalin Hygicnic Co., Ltd., 3 Lloyds Avenue, E.C. 3.
Greeff, R. W., & Co., Thames House, Queen Street Place,
E.C. 4. (Half the staff will be in attendance on April 3.)
Hair. B. W., & Son, Ltd., 104 High Holborn, W.C. 1.
Howards & Sons, Ltd., Ilford.
Macfarlan, J. F., & Co., 9 and 11 Moor Lane, E.C. 2.
Mallagh & Co., 19 St. Dunstan's Hill. E.C. 3.
Maw, S., Son & Sons, Ltd., 7-12 Aldersgate Street, E.C. 1.
May, Roberts & Co., Ltd., 7-13 Clerkenwell Road, E.C. 1
(and on March 31 for stocktaking).
Morson, Thomas, & Son, Ltd., Gray's Inn Road, W.C. 1.
Newbery, Francis, & Sons, Ltd., 27 and 23 Charterhouse
Square, E.C. 1.
Oppenheimer, Son & Co., Ltd., 179 Queen Victoria Street

Oppenheimer, Son & Co., Ltd., 179 Queen Victoria Street, E.C. 4.

E.C. 4.

Parke, Davis & Co., 50-54 Beak Street, W. 1.

Potter & Clarke, Ltd., 60-64 Artillery Lane, E. 1.

Reuter, R. J., 69 Carter Lane, E.C. 4.

Sangers, 258 Euston Road, N.W. 1. (Open on April 3.)

"Sanitas" Co., Ltd., The, Locksley Street, E. 14.

Smith, T. & H., Ltd., 25 Chri-topher Street, E.C. 2.

Sparks, White & Co., Ltd., Tenter Street, E. 1.

Stevenson, H. E., & Co., 122 Great Suffolk Street, S.E. 1.

Stevenson & Howell, Ltd., 955 Southwark Street, S.E. 1.

Toogood, William, Ltd., 77 Southwark Street, S.E. 1.

Tveer, Thomas, & Co., Ltd., Stratford, E.

Willows, Francis, Butler & Thompson, Ltd., 40 Aldersgate

Street, E.C. 1. (Open on April 3.)

Wood, Vincent, 91 and 93 Newington Causeway, S.E. 1.

Wright, Layman & Umncy, Ltd., 44-50 Southwark Street, S.E. 1.

S.E. 1.

The offices of The Chemist and Druggist will be closed from April 1 to April 6.

A £5.000,000 Deal.

The offer of Rownson, Drew & Clydesdale, Ltd., 225 Upper Thames Street, London, E.C., to purchase all the Government surplus factory stores in Great Britain, has been accepted by the Disposals Board on the authority of the Minister of Munitions. The stocks consist largely of hardware material, but they also include 120 varieties of oils (castor oil, pharmaceutical and other grades, etc.), methylated spirit, disinfectants, "vermijelli," soaps, acetone, amyl acetate, naphthalin, sodium sulphite, etc. The articles will shortly be advertised, and tenderers for

goods will be requested to send in their requirements on postcards. Intending purchasers may also find what is on offer by consulting the company's price list. It is estimated that 5,000,000*l*. worth of goods, which is a minimum figure, will be disposed of in twelve months.

Contracts.

The following tenders have been accepted by the bodies

Hemel Hempstead Guardians.-Mr. A. A. Isaac, chemist

and druggist, dressings.

Wrexham Guardians.—Francis & Co., chemists, drugs,

The following Government contracts have been notified: ADMIRALTY.—Mustard.—Keen, Robinson & Co., Ltd. Post Office.—Colza Oil.—Price's Patent Candle Co., Ltd.

India Office.—Low Resistance Cells.—Siemens Bros. & Co., Ltd. Nickel.—Mond Nickel Co., Ltd. Silver Nitrate.—Johnson, Matthey & Co., Ltd. Surgical Instru-ments.—Arnold & Sons, Down Bros., Ltd., J. H. Mon-tague, J. Weiss & Son, Ltd. Syringes.—Arnold & Sons, A. E. Braid & Co., Ltd., Down Bros., Ltd.

CROWN AGENTS FOR THE COLONIES.—Candles.—Price's Patent Candle Co., Ltd. Drugs.—Burgoyne, Burbidges & Co., Ltd. Linseed Oil.—S. Earle & Co. Lymph.—Lister Institute of Preventive Medicine. Quinine.—Howards & Sons., Ltd. Surgical Instruments.—Down Bros., Ltd. Tabloids.—Burroughs Wellcome & Co.

#### Birmii gnam.

Traders complain bitterly that the parcels they receive from the railways are almost always tampered with in some way or another.

A pamphlet on hair-treatment is being very widely distributed in the city, and there are large and imposing advertisements in the local Press.

Mr. H. O. Lloyd, President of the Birmingham Pharmaceutical Association, has been nominated for a seat on the Council of the Pharmaceutical Society of Great Britain, and has consented to stand.

Mr. Marshall Freeman has informed a local paper that, since he became a Commissioner under the Military Service (Civil Liabilities) Department, he has personally dealt with the needs of 12,500 soldiers' homes up to the Armistice, and 6,000 since. There has been no case of fraud.

Liverpool.

A party of students from the Liverpool School of Pharmacy visited the laboratories of Evans Sons Lescher & Webb, Ltd., recently, and were entertained at tea.

Rat-destroyers seem likely to command a steady sale permanently, thanks to the educative effects of a recent statute. In a great port, the ships renew the supply of rodents, while each harvest is followed by a rush of mice from fields to suburban houses.

A Liverpool scheme for a fixed rate of charges for road motor-haulage of goods from the city to outlying districts within a radius of 50 miles will come into operation on March 29. It is understood that the charges compare favourably with the railway rates to the same districts.

Rooms for delegates and their friends attending the British Pharmaceutical Conference in July have been booked at the following hotels: Exchange Station, North-West, Adelphi, Compton, Victoria, and Washington.
The Conference excursion to Bettws-y-Coed is to be a circular tour—outwards via Rock Ferry, Queen's Ferry, and Cerrig-y-Druidion, and homewards via Holywell, Colwyn and Rhyl.

The notice convening the latest meeting of the Liverpool Chemists' Association, after giving the date in two forms—neither of which is recognised in modern usage as correct—makes the following statement: "The 24th March is likely to be one of the most interesting Papers of the session." Time is money, we are told: as a considerable proportion of our currency consists of paper, the compiler of the notice may possibly have been troubled by a momentary confusion of thought. Or is this another case of fourth-dimensional concepts?

Arising out of a police-court case heard here on March 17, in which a woman was said to have obtained from a chemist methylated spirit "mixed with shellac," and to have used the mixture as a beverage, a local correspondent of "Lloyd's Sunday News" quotes, in the issue of March 21, "a leading police official" as saying: "The pity is that we have no means of checking the sale of this stuff. The chemists are licensed to sell it, and they do so apparently without any anxiety as to what use it is going to be put. These women drinkers send their children, when too drunk to go themselves, to the biggest chemists in high-class premises, as well as to smaller shops. The chemist, if he sells the stuff undiluted, just as it is supplied to him, makes 250 or 300 per cent. profit, and if he waters it down, as he very often does, the profit rises to as high as 500 per cent."

#### Manchester.

Mr. Louis K. Liggett, President of the United Drug Company, arrived in Liverpool by the White Star liner Baltic on March 23. After a short visit to the Continent, Mr. Liggett will address meetings of Rexall chemists in London, Manchester, Glasgow, Dublin, and Belfast. A "rally" is announced for April 7 at the Midland Hotel, Manchester.

An inquest was held in Manchester, recently, on the body of Mr. George Arthur Dutton (43), wholesale druggist, trading as G. Dutton & Son, 1 Lancaster Avenue, who had been found with his throat cut. evidence showed that Mr. Dutton had been unwell for some time, and had been depressed. "Suicide while insane" was returned.

Neweastle-on-Tyne.

Mr. R. Bartle, chemist and druggist, has opened a business in Heaton Road.

Mr. F. Gilderdale, F.C.S., chemist and druggist, who was assistant-manager with John Ismay & Sons for twenty-seven years, has joined the directorate of Copeland & Wilson, Ltd., Custom House Chambers, Quayside. This company has purchased the business of Currie & Hutchinson, manufacturing chemists, St. Mary's Place, which will be carried on under the old title.

Shetteld.

The local students' Association has arranged visits to the Gas Works and to the Firvale Hospital. wish to be present are requested to send their names to Mr. I. Best.

The local Society is to be congratulated on the success of its efforts to secure the appointment of a qualified man as dispenser at the Royal Hospital. A black spot in Sheffield is thus removed after many attempts.

Mr. E. Preston, Ph.C., President of the Sheffield Pharmaceutical and Chemical Society, has undertaken the duties of secretary to a special committee formed for the purpose of furthering the interests of our local candidate at the coming Council election.

#### Miscellanecus,

Poison-licence Application.—E. B. Job, Oxted, has applied to the Surrey County Council for a licence to sell poisonous weed-killer.

GRANT TO RADIOGRAPHERS.—At a meeting of the St. Pancras (London) Guardians on March 18, a sum of 25l. per annum each was granted to the two dispensers at the North and South Infirmaries, respectively, for acting as radiographers.

SUMMER TIME.—The commencement of Summer Time is on Sunday, March 28. Clocks should be advanced an hour on Saturday night in anticipation of the change which takes place at 2 A.M. on Sunday. The reversion to normal time will be on September 27.

FIRE.—An outbreak of fire occurred on March 19 at the premises of The British Drug Houses, Ltd., 22-30 Graham Street, City Road, London, N. A large structure in Wharf Road was involved, and, in addition to some loss of stock, damage was done by smoke and

MEDICAL RESEARCH COMMITTEE.—Application has been made for a charter of incorporation by the present members of this Committee under the name of the Medical Research Council. The duties of the Committee were by Section 3 of the Ministry of Health Act 1919 transferred from the National Health Insurance Commissioners to the Privy Council.

In the Courts.—At Burnley Police Court, on March 29, Hetty Roberts (22) was charged with having attempted to commit suicide by taking atropine, which had been supplied in the form of an eye-lotion from a local hospital. She was discharged.—At the Thames Police Court, London, on March 22, two Chinamen were fined 10l. and 1l. respectively for being in unauthorised possession of opium.—In Folkestone County Court, recently, Mr. John Ward Stainer, Ph.C., Sandgate Road, sued Commander Oliphant for 5l. for oxygen supplied, with key and adjustment. Mr. Stainer stated in evidence that he sold the defendant the oxygen gas for 4l., and the balance was for fittings. Judgment was given for the plaintiff, with costs.

Cocaine Case.—At Marlborough Street Police Court, London, on March 23, John Frederick Schumacher (25), clerk; Alfred Vacheron (24), waiter; and Rene Schumacher (27), commercial traveller, all giving an address in Harrington Square, N.W., were charged under Regulation 40s of the Defence of the Realm Act, the first two as unauthorised persons in possession of and dealing with cocaine, and the third with aiding and abetting in the offence. A detective stated in evidence that a box dropped by one of the prisoners was found to contain "a large bottle" nearly full of cocaine. In the rooms occupied by them were liquids and powders, which were now being examined by the public analyst. When charged, John Schumacher said, "I am to blame for all this. I bought it last Thursday for 15l., and thought of getting a profit on it. My firm (of wholesale druggists) is not implicated." A remand was ordered, bail being refused.

OPTICAL EXAMINATIONS.—The next examinations of the British Optical Association, Dioptric Intermediate and Final Fellowship grades, will be held at the University of London on May 11, 12, 13, and 14. The concession allowing members of the Spectaclemakers' Company to sit for the Fellowship examination without undergoing and paying the fees of the Dioptric examination will be in force during this year only. The fee for the D.B.O.A. examination will be 7l. 7s. until December 1920, after which date it will be 10l. 10s., the re-examination fees being raised proportionately. The Fellowship fees remain unaltered. Full particulars of these examinations can be obtained from the secretary, Mr. J. H. Sutcliffe, O.B.E., Clifford's Inn Hall, Fleet Street, E.C. 4.—The next examinations of the Worshipful Company of Spectaclemakers will commence on May 3, at the St. Bride Institute, Ludgate Circus, E.C. 4. Particulars may be obtained from the clerk of the Company, 14 Temple House, Temple Avenue, E.C. 4.

## Gazette.

#### Bankruptcy Acts.

RECEIVING ORDER.
OGDEN, A. E., 58 Dalton Road, Barrow-in-Furness, chemist, optician and surgical fitter.

#### Partnerships Dissolved.

CLAY, J. H., and DUFTON, S., Forster Square, Bradford, chemical and dyeware agents, under the style of Clay & Dufton

Dufton.
GRIFFITHS, T. C., and CLAREMONT, L., 37 Vestry Road, Camberwell, S.E. 5, drug stores, under the style of the Service Drug Co.

MUNICIPAL TRADING IN FOODS.—Southwark Borough Council has received the consent of the Ministry of Health to establish a central store in the borough for the supply of milk, medicines, and drugs at cheap rates to expectant mothers and to mothers with babies. Dr. Millsom, medical officer of health, commenced to buy these articles for poor mothers three years ago. In one year 2,112 lb. of Glaxo and 728 lb. of Virol were disposed of.

#### Irish News.

#### Brevities.

Mr. Joseph Dargan, R.D., has been appointed dispenser to the Summerhill Dispensary by the Dublin board of guardians.

Mr. John McBirney, Ph.C., M.R.C.V.S., who recently left Rathfriland, co. Down, for Belfast (where he has commenced business as a pharmacist and veterinary surgeon at Lisburn Road), was entertained at the Court House, Rathfriland, by a number of townspeople on March 11 as a mark of their esteem. He was presented with an illuminated address and a leather dressing-case, and Mrs. McBirney also received a dressing-case. After supper had been served an enjoyable dance followed.

#### A St. Patrick's Day Luncheon.

On St. Patrick's Day a distinguished company of guests was entertained to luncheon by Captain J. C. McWalter, M.D., Ph.C., High Sheriff of Dublin (C. & D., March 20, p. 48). Leading lights of Law, Divinity, and Medicine were present, and official Pharmacy was represented by Dr. A. J. Barnes (Vice-President of the Pharmaceutical Society of Ireland), and Councillors Dr. J. A. Walsh, Victor E. Hanna, and A. O. Wells. There were also present Sir Thomas Robinson, Dr. James Ashe, Ph.C., Dr. Walter Healy, Ph.C., and Alderman William McCarthy, Ph.C. The menu provided was excellent, and continuous music served to complete a most enjoyable function, to which a local newspaper referred as "a pleasant oasis in the desert of Irish strife." The toasts were "The King," "The City and Corporation of Dublin," "The Universities and Colleges," "The Trade and Commerce of Dublin," and "The Press." The toast of "The Universities and Colleges was proposed by the Rev. Father P. Finlay and the Most Rev. Dr. Bernard, Provost of Dublin University, and responded to by the Presidents of the Royal Colleges of Physicians and Surgeons and by Dr. H. W. Mason, Governor of the Apothecaries' Hall. That the speeches in this connection were regarded as of far-reaching importance may be judged by the fact that the "Irish Times" devoted a full column to reporting them, and in addition they elicited a leading article from the editor's pen. Dr. McWalter is certainly to be congratulated on the success of his entertainment, from both a public and private point of view.—Dr. McWalter was a guest at the banquet given by the Companions of St. Patrick, under the presidency of the Earl of Granard, K.P., and responded to the toast of "The Guests."

#### South African News.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is supplied weekly to members of all the Chemists' Societies in South Africa.

Assistants' Wages.—Last weck (p. 49) we reported that qualified chemists' assistants in Johannesburg proposed to ask a minimum wage of 45l. per month. This demand, says the Johannesburg correspondent of the "Cape Times," "is likely to receive short shrift at the hands of the masters, judging from the expressions of opinions given by several firms." "The average wage for assistants at present," said the proprietor of one shop, "is 26l. 10s. a month. They are now asking for a sudden leap upwards, irrespective of the state of business. Most businesses to-day cannot stand it. Early closing on Saturdays, for one thing, is making a big difference. More than one shop is showing a loss during the last few weeks, which can be traced definitely to this. The assistants, too, are asking for a high wage as professional men. To do so they ally themselves with the shop assistants and clerks. As a matter of fact there are plenty of district surgeons not worth 45l. a month. I think the masters in most businesses are getting very tired of being ordered about by their men; told when to close and what to pay. I know what my answer will be."

#### Scottish News.

#### Brevities.

The refinery department of the Addiewell & Uphall Oil Works, which has been closed since the last industrial dispute, is to be restarted shortly.

The majority of Scottish wholesale houses have issued notices to the effect that the minimum carriage-paid order (drugs and sundries) must amount to 5l., exclusive of

Considerable deposits of tin, and traces of copper and lead, have been discovered in the Hebrides and in parts of Argyllshire and Ross-shire. Whether the tin can be worked profitably remains to be seen.

A well-known Scottish wholesale house, having acquired a number of motor lorries, is running a regular delivery service. Railway rates are saved, and there is no chance of goods being "reported missing, believed

Mr. D. Buchanan, chemist and druggist, Kirriemuir, has been presented with a silver salver and a sum of money on the occasion of his retirement from office after thirty-five years' service. Mr. Buchanan passed the Qualifying examination in 1873, and established himself in business in Kirriemuir in the following year.

Mr. W. G. Craib, M.A., has been appointed Regius Professor of Botany at Aberdeen University. Professor Craib was at one time superintendent of the Botanic Gardens, Calcutta, and on returning to this country was at the Royal Gardens, Kew. For the past five years he has been a lecturer in Edinburgh under Professor Bayley Balfour.

#### Edinburgh.

A local boot warehouse has been offering a proprietary tooth-powder at a very low rate.

A record number of candidates is going up for the Qualifying examination at York Place this week,

Photographic business is beginning to increase again. It seems foolish, by the way, to discontinue the practice of accepting and crediting returned empty spools.

"This," said a lorryman on Tuesday, delivering several packages labelled "Milton" at a pharmacy, "has made me decide on backing the horse of this name in the Lincolnshire." Sermons in stones!

Baron Palmer, who is visiting this country on a trade mission from Finland, is the son of an Edinburgh lady. He is the director of the central chemical research laboratory for Finnish industry.

At the recent annual general meeting of the Edinburgh and East of Scotland Section of the Society of Chemical Industry, Dr. D. S. Jerdan was re-elected chairman, Dr. H. E. Watt vice-chairman, and Dr. A. Lauder secretary for the ensuing session.

#### Glasgow.

With the approach of the Qualifying examination, the Mitchell Library, Miller Street, has an increasing number of visitors.

Dr. J. Morton, whose death is announced, was chief surgeon at the Western Infirmary, and had a considerable reputation as a skin specialist.

Mr. S. Levine, chemist and druggist, Dumbarton Road, has taken over the business carried on for many years by Mr. H. Heal, chemist and druggist, at 41 Morrison Street, Govan.

The Society of Glass Technology, which has its headquarters in Sheffield, held a meeting on March 17, in the Technical College, Glasgow. Among the papers read was one by Dr. W. E. S. Turner, dealing with the state of the German glass industry during the war and at the present time.

# French News. (From the "C. & D." Paris Correspondent.)

PROF. BOURQUELOT has been nominated an honorary member of the Royal Academy of Belgium.

THE BESTOWAL OF POSTHUMOUS HONOURS on gallant soldiers, etc., has become very general in France. The late son of Professor Guerbet (the Paris School of Pharmacy) has been awarded the Cross of the Legion of Honour. He was an artillery lieutenant, and when his battery was heavily bombarded he "died gloriously at his post while giving orders."

Poison-gas Producers.—Towards the end of the war the Usines du Rhône produced daily over twenty tons of yperite (mustard-gas). Several works managers have received honourable mention from the French Ministry of Munitions in this connection, including M. V. Motte (Pont-à-Claix liquid chlorine factory), M. V. Berthon (stearine and soap works at Lyons), and MM. Grillet and Kortchett (Péage-de-Roussillon works of the Usines du

THE "EIGHT-HOURS" ACT.—The Pharmacists Federation of the Seine department, in view of the Eight Hours Act, proposed to adopt a system of nine and a-half hours' daily attendance at the pharmacy, of which an hour and a half would represent meal-time. They met the delegates of the Assistants' Association, but the latter were disinclined to accept the suggestion. The authorities, however, may approve the employers' proposal, though they may make exceptions where more than one assistant is kept.

THE WHOLESALE DRUGGISTS' ASSOCIATION.—M. Michel has been re-elected President for 1920. The Vice-Presidents are MM. Gallois, Michelat, Dugommer, Fromont (Lyons), Silbert (Marseilles), and Zundel (Mulhouse); the secretaries, MM. Bachelet, Boulanger, Dechaud, Mathurin, Merveau, and Pelliot. M. Charles Buchet (Pharmacie Centrale de France) is treasurer. M. Zundel represents one of the oldest drug-houses of Mulhouse, and was assistant mayor of this important Alsatian manufacturing town during the war.

PROFIT ON PROPRIETARIES.—In the opinion of the Board of Management of the General Association of French Pharmacists, an effort should be made by the trade to assure retailers a profit of from 30 per cent. to 40 per cent. on patents, and 25 per cent. to 30 per cent. on hygienic sundries and mineral waters. The recently imposed tax on patents has not injuriously affected their sale. Revenue from this source has steadily increased; the last figures available (for July 1919) show a total of 1,656,000 francs, or nearly double the estimated amount.

THE SANITARY SERVICE.—In the amphitheatre of the Sorbonne recently doctors and pharmacists met in honour of the members of the Sanitary Service who lost their lives in the war. M. Breton, Minister of Social Hygiene, presided, General Pau attended as President of the French Red Cross, and several public bodies sent representatives. M. Loisel spoke in the name of the General Association of French Pharmacists, M. Thumann for the pharmacists of Alsace-Lorraine, Inspector-General Toubert for the Army Sanitary Service, and Dr. Henri Roger for the medical profession. Mlle. Madeline Roch, of the Comédie Française, recited Dr. Richet's poem, Morts pour l'Humanité.

TRADE DISCOUNTS are being discussed at length just now, both at the Wholesale Druggists' Association and at the General Association of French Pharmacists. Roughly speaking, the retailers consider prices should be raised or protected so as to leave a margin of 30 to 40 per cent. The wholesalers think 25 per cent. might suffice for the retailers. The intermediary firms ("jobbers") claim 10 per cent. as their minimum. The meeting arranged between wholesalers and retailers to exchange views led to a lively but inconclusive discussion. One difficulty in the way of a satisfactory all-round settlement seems to lie in the fact that the prices of patents are "cut" more in some regions of France than in others.

## The Profiteering Act.

#### Appeals.

At the sitting of the London Appeal Committee on March 19, C. B. Allen & Sons, pharmaceutical chemists, 20 High Road, Kilburn, N.W., appealed against the decision of the Hampstead Profiteering Committee ordering a refund of 9d. on a charge of 3s. 9d. made for a 6-oz. mixture (C. & D., February 21, p. 51). The prescription was as follows:

 Salol
 5ij.

 Tinct. nucis vom.
 3ij.

 Tinct. bellad.
 mxlvij.

 Nepenthe
 mxij.

 Tinct. card. co.
 5iv.

 Glyc. peps. acid.
 3vj.

 Mucil. acac.
 5j.

 Inf. caryoph. (recent.) ad
 3vj.

Mr. Walter Frampton, barrister, who appeared for the appellants, related the facts of the case, and said that the Committee had ordered a refund of 9d., but did not suggest any other proceedings. The ingredients cost suggest any other proceedings. The ingredients cost 1s. 4d., and the bottle 3d. The Chairman (Judge Snagge): Is 3d, the usual wholesale price for a bottle? Mr. Frampton: That is the actual cost price. (It was stated by chemists present that the price of bottles was now even more.) He went on to say that the prescription took twenty minutes to make up, although some time could have been saved by using a concentrated infusion of cloves instead of a fresh infusion. The appellants were in a difficulty regarding an assessment of the time devoted to the preparation of the prescription. Mr. Allen went before the Committee with a complete account of his business, showing the salaries paid to his staff, the total establishment charges, and the actual profits of the business. He was asked how he allocated the cost to the dispensing and the sales departments, and he attributed rather more to the former than the latter. The Committee only differed from the appellants in one respect, and that was they thought Messrs. Allen ought to charge half the expenses of the staff to dispensing, and not twothirds, as they had done. The receipts from dispensing represented two-fifths of the total takings, but the time taken in making up a prescription was out of all proportion to that occupied by sales over the counter. The business was run by two sons of the late Mr. Allen, who was at one time President of the Pharmaceutical Society. They had not included anything in the accounts in respect of their own services. So far as the establishment charges were concerned, they estimated the cost of the dispensing department at 10s. 6d. per hour, and the cost of the work for the prescription under consideration was estimated at 18. 8d. They added to that a profit of 9d., or 20 per cent. on the return, and out of that the two proprietors had to get their remuneration. There would be no net profit if the two partners were paid the salary they were entitled to. Under the circumstances he did not see how it could be said that an unreasonable profit had been made. Mr. C. T. Allen, Ph.C., gave evidence that the charge of 3s. 9d. for the prescription was reasonable. The twenty minutes estimated as the time taken in making up the mixture was not sufficient. The balance-sheet put in and certified by accountants did not provide for him or his brother to have a salary. They had been trying for two years to find a system upon which they could base the cost of dispensing medicine. They now estimated the value of the ingredients and the time taken to mix them, always endeavouring to underestimate the time. The exact time in this case was 29½ minutes. They used a sliding scale for the rate of profit. If a doctor ordered some very expensive ingredient they did not treat the matter on an ordinary commercial basis. If the cost of the ingredients plus the service did not exceed 1s., they added 50 per cent., and in the case of 3s. they added 25 per cent. The prescription in this case would require attention for at least twenty minutes. Mr. H. Longstaff, chemist and druggist, Finchley Road, N.W., stated in

evidence that the charge of 3s. 9d. was quite reasonable. He would have made the prescription with concentrated infusion of cloves, which would have saved time and enabled 3s. 6d. to be charged. The chairman said it was a pity that the local Committee was not represented that day, as the Tribunal had no information as to how the 3s. was arrived at by the Committee. Mr. W. H. MacCallum, chemist and druggist (Allen & Hanburys, Ltd.), said that his company would have charged 4s. for the prescription, owing to their higher expenses. Their custom was to add 100 per cent. in the case of small quantities of cheap arugs, and 50 per cent. for expensive drugs. They would be satisfied with a net profit of between 20 and 30 per cent. on a bottle of medicine. Mr. E. W. Gough, chemist and druggist, managing director of Lewis & Burrows, Ltd., said that at the Finchley Road branch of that company the charge for the prescription would have been 3s. 10d. with a fresh infusion, or 3s. 6d. if a concentrated infusion was used. Their calculations were based on the actual cost of the ingredients, the time, establishment charges, and 333 per cent. on the cost as the company's profit, making 25 per cent. on the total turnover. The chairman said the Tribunal were not quite satisfied with the way in which some of the figures as to establishment charges had been arrived at, and suggested that, in their own interests and those of the public, Messrs. Allen should try to see their way to reduce their establishment charges. The public would reduce their establishment charges. then be able to get the advantage of drugs at a somewhat less price. On the particular facts of the case, however, the Committee were not satisfied that there had been unreasonable profiteering, nor were they satisfied that there had been an improper allocation of the proportions in regard to either salaries or establishment charges, and therefore in the circumstances the appeal would be allowed.

At the same sitting the hearing of the appeal of Boots Cash Chemists (Southern), Ltd., against the decision which had been given by the Bermondsey Profiteering Committee, ordering a refund of 9d. on a charge of 2s. made for Iodex and directing a prosecution ( $\bar{C}$ . & D., February 7, p. 70), was concluded. Mr. Bramall, who appeared for the appellants, recalled that the chairman had previously adjourned the appeal (C. & D., February 21, p. 49) because a question of principle was being raised at the Tower Bridge Police Court in a case then pending (C. & D., February 21, p. 52). The chairman had suggested that the court referred to was a superior tribunal. The Chairman: You must have misunderstood me. His recollection, he proceeded, was that a case, of the facts of which he knew nothing, was pending, and that a principle which might assist in the present case might be laid down. Mr. Bramall said that the principle laid down in the case which had since been heard was that the trader had a right to look to the current prices irrespective of the prices ruling at the time the goods were bought. The principle involved was as to whether the retailer in fixing the price at which he sold was entitled to take into consideration the market value of his stock. If the value fell he had to sell at a loss. For instance, by a heavy fall in the value of saccharin last year Messrs. Boots lost 20,800l. On the other hand, if the value rose it appeared to him that a trader should be allowed to benefit accordingly. The Chairman: Whether he has bought any at the new price or at whatever price he may originally have bought the article?—Mr. Bramall: Yes, I think so. Otherwise it might happen that one trader who had old stock might be selling at less than other traders—which would be unfair competition. The Chairman: What about the public?—Mr. Bramall: The public gets the benefit if there is a fall in price, and I cannot see that the price should not be affected by a rise. It was, he continued, a short-sighted view to say that it was for the benefit of the public to get things at a lower price. Such competition would result in driving the small man, who could not buy in large quantities, out of business; and combines would eventually be able to raise the price against the public. The chairman agreed that the trader was entitled to a fair profit. The question was how the public could be protected without injuring the trader. Mr.

Bramall submitted that, if a common rate of profit were insisted upon for all traders, enterprise would be killed and there would be no incentive to economical production. Boots had a large capital and a very large manufacturing establishment, and could produce things at a cheaper rate. But, if they were to undersell their competitors, a monopoly would be created and other traders would be driven out of business. He recalled the facts of the case, explaning that the profit on the sale at 2s. was 42½ per cent., and on the cost 74 per cent. The chairman pointed out that evidently somebody at Boots thought a distinction should be made between old and new stock. Mr. Bramall said that a young officer had issued a circular on the subject, but it was not authorised. Mr. Lyall, for the Bermondsey Profiteering Committee, said that the Committee felt that in this case the article sold was old stock. The evidence was that no new bottles had been bought, and that 1s. 3d., giving a profit of 22½ per cent., would have been a reasonable figure. It was quite a new thing for Boots to come into Court and talk about unfair competition, because one of their representatives had admitted that in pre-war days they sold proprietary articles below the price they were supposed to sell them at. The chairman, in announcing the decision of the Committee, said he agreed that there were many cases in which it was right that the existing wholesale price should be treated as a matter of great importance by tribunals. But, on the facts in this case, the Tribunal were of opinion that they differed very largely from those which were brought to light at the Police Court. Had the circumstances been the same in both cases it was more than likely that the Tribunal would have been guided by the magisterial decision. There was, however, no evidence in this case that the appellants had bought at the enhanced price, and the Tribunal were of opinion that the profit obtained was unreasonable. The appeal would therefore be dismissed.

At the sitting of the Middlesex Appeal Committee, on March 22, T. P. Shelvey, grocer, High Road, Tottenham, unsuccessfully appealed against a decision of the Tottenham Profiteering Committee ordering a refund of 3d. on a charge of 8d. made for 1 lb. of alum.

#### Complaints.

Bermondsex.—At a recent sitting of the Profiteering Committee, an application was made on behalf of Mr. A. G. A. Caithness, chemist and druggist, manager for Mr. Robert Blackie, chemist and druggist, at 144 Jamaica Road, who at the previous meeting of the Committee was ordered to refund 3d. on the sale of a pocket-comb (C. & D., March 13, p. 52). The Committee had also ordered that there should be a prosecution, and it was against this part of the decision that the application was made. It was urged that if Mr. Caithness had wanted to charge 1s. he would not have sent the comb out with 9d. marked on it. Had he rubbed the price out, it would have been a different matter. The Committee, in the circumstances, decided to take no further action, as the 3d. had been refunded.

Edinburgh.—At the sitting of the Profiteering Committee on March 22, a chemist who was the respondent in a complaint regarding a charge of 3s. 6d. for a tube of menthol-and-wintergreen cream wrote that he had been misled by a manufacturer's advertisement. The article was originally sold at 1s. 6d., but on seeing in a trade journal that the price was to be increased to 3s. 6d., he immediately made the additional charge. Later, the manufacturer recalled his advertisement, and the chemist refunded the 2s. to the complainant. In view of the fact that the refund had already been made, the case was withdrawn.

Hammersmith.—At a recent sitting of the Profiteering Committee, the case in which Boots Cash Chemists (Southern), Ltd., had unsuccessfully appealed against the Committee's decision ordering them to refund 9½d. on a sale of Christie's Chilblain Liniment and directing a prosecution (C. & D., February 28, p. 73), was again considered. It was decided not to take further action.

Kensington.—At the sitting of the Profiteering Committee on March 22, a complaint regarding a charge of mittee on March 22, a complaint regarding a charge of  $7\frac{1}{2}d$ . for 1 oz. of senna pods (C. & D.), March 20, p. 50) was heard, the respondents being Tupholme & Son, chemists, 1 Coleherne Terrace, S.W. 5. The case was defended by the Chemists' Defence Association, Ltd. The respondents' manager, giving evidence, stated that the pods were taken into stock in July 1919, when he bought 28 lb. as a "job line" at 2s. 3d. per lb. He had obtained a sample of the cheaper pods mentioned by the complainant. Mr. B. R. Wikkinson, Ph.C., secretary of the Western Pharmacists' Association, said that he had examined both samples. The cheaper pods were considerexamined both samples. The cheaper pods were considerably more broken than the dearer ones—an important point in senna pods. In the cheaper pods were found bits of grass, paper, straw, etc. To pick these pods a considerable amount of labour would be involved, which would make a great difference in the price. The solicitor for the respondents, addressing the Committee, said that when the manager to Messrs. Tupholme was offered the 28 lb. of senna pods, he recognised that the current price should be charged. Philip's "Standard" Retail Price List showed that the current wholesale price for the pods was 4s. 9d. per lb., and the selling price  $7\frac{1}{2}d.$  per oz. The pods were Alexandrian, and were specially picked. The British Drug Houses' price list showed that as much as 6s. 4d. was charged. The Chairman: According to the list there are three prices. After consideration, the Committee ordered the respondents to refund  $1\frac{1}{2}d$ . The complainant protested that the order reduced the whole proceedings to a farce, and refused to accept the 1½d.—At the same sitting W. W. Brunton & Co., chemists, 240 Earl's Court Road, were the respondents in a complaint concerning a charge of 2s. 6d. for 1 oz. of Turkey rhubarb. The case was defended by the Chemists' Defence Association, Ltd. In cross-examination, the complainant said that when making the purchase he asked for an ounce of Turkey rhubarb, and it was not suggested to him there was any other quality on sale. Mr. Ernest William Hill, Ph.C., stated in evidence that he was the proprietor of the business. The best quality of Turkey rhubarb was East Indian rhubarb. The overhead charges of his establishment were 24 per cent.; they only sold a few ounces of rhubarb in the course of a year. There would be a certain amount of waste through its being kept for a length of time. Mr. Hill's solicitor said the practice has been adopted that, when an article had been bought when it was cheap, liberty should be given to sell at the current market price. Since respondent made the purchase of this rhubarb the market has risen considerably; and as evidence of the current market price he produced Philip's "Standard" Retail Price List. He thought it would be better to have the case adjourned to enable him to produce the invoice. The complaint was accordingly adjourned.

City of London.—At the sitting of the Profiteering Committee on March 24, a Mrs. Goldstein alleged profiteering on the part of a trader in Middlesex Street named Morgenstein. Producing a small bottle of vaseline, the complainant declared that she was charged 1s. for it, though it was worth only  $7\frac{1}{2}d$ . The respondent admitted charging 1s., but maintained that the bottle produced was smaller than that actually sold. While allowing an overcharge of  $3\frac{1}{2}d$ , the Committee decided to bring the conflict of evidence to the attention of the City solicitor with a view to the identity of the bottle being decided in another court.

STEPNEY.—At the sitting of the Profiteering Committee on March 24, a complaint was investigated concerning a charge of 7d. for 4 oz. of boric acid, the respondents being John Beedzler & Co., chemists, 20 Norton Folgate, E. 1. Mr. C. H. Kirby (Neve, Beck & Kirby), instructed by the Chemists' Defence Association, Ltd., appeared for Messrs. Beedzler. It was shown that the price charged was given in three current retail price lists. On the ground that Messrs. Beedzler had bought the boric acid advantageously, the Committee ordered a refund of 1½d., and directed a prosecution.

Weston-super-Mare.—At a recent sitting of the Profiteering Committee, a complaint was heard regarding an alleged overcharge for dispensing, the respondents being

Lewis Wing, Ltd., chemists. The complainant, Mr. J. S. Oaks, stated that he had had a prescription made up at the Walliscote Road branch of Messrs. Wing. Before it was made up, the assistant had informed him that the cost would be 5s. Inasmuch, however, as the same prescription had previously, been made up by Boots, Ltd., for 1s. 6d., he only purchased half the quantity, for which he paid 2s. 6d. Subsequently he took the same prescription to Messrs. Boots, who made up the full quantity for 1s. 10d. Cross-examined by Mr. Dickinson, who appeared for the respondents: Would you be surprised to hear that the price of menthol in 1914 was 10s. 3d. per lb., and that to-day it is 95s. per lb.—an increase of 900 per cent.?—No, I know nothing about that. And I don't know where Messrs. Boots bought their menthol. Would you be surprised to hear that the price of another of the ingredients, chloroform, was 1s. 6d. per lb. in 1914, and that to-day it is 58, 5d. per lb.—an increase of 366 per cent. ?—I should not be surprised at anything in these days. Would you be surprised to hear that Messrs. Wing were then charging 9d.—which yielded them a profit of 66 per cent.—whereas they are now charging 2s. 6d., which only yields them 33 per cent. profit on the actual cost?—Prices have gone up, it is true, and one is not surprised at anything. Replying to a further question, Mr. Oaks said he had not had the samples of liniment analysed. Mr. Dickinson, addressing the Committee, observed that he should be able to prove that the profit Messrs. Wing were now making on the liniment—without taking into consideration increase of overhead charges—was less than half the profit they had been making on it in 1914. The clerk mentioned that menthol was quoted in "The Pharmaceutical Journal and Pharmacist" of March 6 at 70s. per lb. Mr. Dickinson: I quoted my figures from THE CHEMIST AND DRUGGIST DIARY. We naturally have to pay a bigger price. In order that there shall be no doubt about it I can show you that the Ministry of Health will give us 68. 9d. per oz. for menthol. In 2 oz. of this liniment there would be 3 dr. of menthol, 4 dr. of chloroform, and the balance is made up of olive oil. The menthol in 1914 cost us 3d., in February this year it cost 2s. 9d.; the chloroform in 1914 cost  $1\frac{1}{2}d$ ., and this year  $4\frac{1}{2}d$ .; the clive oil cost  $1\frac{1}{2}d$ . in 1914, and this year  $3\frac{3}{4}d$ . The total cost in 1914 amounted to 6d., and the total cost to-day is 3s. 5d. Mr. F. E. Cooper, chemist and druggist, manager to Lewis Wing, Ltd., deposed that there was no official formula for the liniment. Cross-examined by Mr. Oaks, witness said he agreed that the increase of salaries, as well as the rise in prices, applied in the instance of Messrs. Boots also. It was possible that firm had purchased heavily when prices had been low. A Member: It is unfortunate that Mr Oaks did not bring a representative of Messrs. Boots here to say the proportion of the ingredients they used in making up the prescription. Mr. Dickinson: You can take it for granted Messrs. Boots' prescription was exactly the same—it doesn't make the slightest bit of difference to our case. Mr. Oaks explained that he had not understood he was expected to bring evidence from other firms. Under such circumstances, it was no wonder the Committee did not get many complaints. If he brought people there he would have to pay for them. Mr. Dickinson: And so have we. Mr. Ernest Widgery. Ph.C., West Street, stated that he would charge 2s. 6d. for making up 1 oz. of the liniment. In 1914 his charge would have been 9d. The Clerk: How could Messrs. Boots sell at the figure named? Mr. Widgery replied that he did not see how they could do so, in justice to their shareholders. He should like to inquire when the prescription had first been made up by Messrs. Boots. Reference to the prescription showed that it was dated "12.1.'15." Mr. Widgery observed that this explained the matter, because then menthol had been at the lowest figure he had ever known it. The chairman said the Committee felt that, after the explanations which had been given, the complaint should be dismissed.

The Association of British Chemical Manufacturers, 166 Piccadilly, London, W. 1, has published, in pamphlet form, a summary of the Report of the British Chemical Mission on Chemical Factories in the Occupied Area of Germany.

# Legal Reports.

Medicine-stamp Act.—At Pontypool, on March 20, William Phillip Thomas was summoned for uttering and exposing for sale and tendering a medicine without a medicine-stamp. Mr. T. G. Gibson prosecuted for the Customs and Excise authorities, and Mr. John Moxon, solicitor, defended. The evidence showed that, although the defendant had had thirty-five years' experience as a dispenser, he had never served an apprenticeship, and therefore was not entitled to sell medicine without a stamp. Mr. Moxon contended that the case was a trumpery one. A fine of 5l. was imposed.

Camphorated Oil Case .- At Bristol Police Court, on March 22, W. F. & R. O. Wickham were summoned for selling camphorated oil deficient in camphor to the extent of 75 per cent. Mr. J. Green, prosecuting, said that defendants carried on business as sellers of chemists' sundries at Wilder Street, St. Paul's. A policewoman sent by the Sale of Food and Drugs Acts inspector purchased at the shop a box containing thirty-six bottles of camphorated oil. Samples were taken from a mixture of a dozen of these, and were submitted to analysis, with the result that it was found to contain only five parts of camphor, instead of twenty parts as required by the British Pharmacopæia. Evidence was given showing that this box bore a label stating: "This oil contains considerable therapeutic properties, and is strongly camphorated with pure camphor." Mr. Lloyd, the inspector, said that, after the sample was taken, defendants arranged to get a further supply from the manufacturers in London. This was found to be 55 per cent. deficient in camphor. Mr. Edward Russell, city analyst, giving evidence, said he did not know that the same oil had been sold for the last thirty-five years. He had not in his experience come across a sample with so low a percentage of camphor. For the defence, Mr. Wansbrough submitted that there was no case, because the oil did not pretend to be the mixture of the British Pharmacopæia, as shown on both box and bottles, and as indicated by the price, which was below that of the standard mixture. The chairman said the magistrates considered an offence had been committed, and defendants would be fined 3l., and 2l. 2s.

Genatosan Milk Contracts.—At Bow Street Police Court, London, on March 23, Mr. Graham Campbell delivered a considered judgment in the case in which Genatosan, Ltd., Chenies Street, W.C., were summoned for buying milk at prices in excess of that applicable under the Milk (Summer Prices) Order, 1919 (C. & D., February 21, p. 53). After quoting a number of authorities, the magistrate said that he had come to the conclusion that this was a wholesale transaction and that it came within the provisions of the Order. For the past thirty years there had been in existence a custom that farmers in Cornwall should be paid for the milk supplied by them on a butterfat basis, but he very much doubted whether a farmer whose farm was only  $4\frac{1}{2}$  miles distant from Penzance had no market for new milk to be consumed as such. He had no reason to think that the company were endeavouring to mislead the officials of the Food Ministry. These officials were well aware of the way in which the company dealt with the farmers, and could with very little inquiry from the company or the farmers have ascertained that the price paid worked out at more than the controlled price for new milk. With regard to the contention that this was not a wholesale transaction, the magistrate said he agreed that, where an article was sold to a retailer for resale in the same condition, the transaction was a wholesale one, even if the quantity sold was comparatively small. But it by no means followed that there were no other forms of wholesale transactions. A sale by retail was a sale to a consumer for consumption. but could it be said that a person who bought milk in order to manufacture it into something else consumed it in the ordinary sense of the word? He ruled against this contention, and also against the suggestion that to constitute a wholesale transaction it was necessary that there

should be a resale of an article in exactly the same condition as originally sold in. On the one summons which had been gone into he imposed a penalty which to a company like the defendants would be only a nominal one—101, and 25 guineas costs. Five other summonses against the company in reference to purchases in similar circumstances were withdrawn.

Salicylic Acid Dispute.—In the King's Bench Division, on March 11, Mr. Justice Coleridge heard an action brought by L. B. Holliday & Co., Ltd., Huddersfield, against May & Baker, Ltd., Battersea, London, S.W., to recover the price of one ton of salicylic acid sold to defendants in September 1918. Mr. Lowenthal, for plaintiffs, said the defence was that the defendants were not bound to accept or pay for the goods, and alternatively they claimed to set off 280% 68. 6% for goods sold to the plaintiffs. This item was not disputed, and plaintiffs had given credit for it in their claim, and if they were right in their claim the balance due to them would be 195l. 13s. 6d. Under the contract the plaintiffs sold, subject to the defendants' approval of the sample, two tons of salicylic acid at 4s.  $3\bar{a}$ . per lb., delivery to be on or before October 19. Defendants were at the time largely engaged in the manufacture of picric acid, and nothing was done under the order till November 27. At that time plaintiffs wrote saying they awaited defendants' instructions for delivery, and defendants did not reply that the time for delivery had passed and that the contract was at an end. they wrote in reply was to ask for a sample of the acid to be sent to them. A sample was sent on December 2, and on December 18 defendants wrote approving the sample and asking for the despatch of the bulk to be arranged immediately. Counsel submitted that the position then was that the contract for delivery in October was at an end, and was replaced by a contract for delivery within a reasonable time. On December 13, a month or so after the Armistice, a ton was despatched and received by defendants. Defendants did not make and complaint that the second ton had not been despatched. They raid for the ton, and on February 19 the second ton was delivered by the plaintiffs. The the second ton was delivered by the plaintiffs. The defendants then wrote: "The balance we consider was cancelled, as we requested you to despatch the whole on December 18 last. We do not think you have a right to ask us to accept the material after so much delay." Mr. Leek, K.C., for defendants, said by their Mr. Leek, K.C., for defendants, said by their letters in December a new contract was made, which was that there was to be delivery immediately of the whole quantity of two tons. The plaintiffs were in default in not then despatching the two tons of acid. Mr. Justice Coleridge, in giving judgment, said he was of opinion the defendants had the right to repudiate the contract when the second ton was despatched, and therefore the plaintiffs failed. Judgment was entered for defendants on the claim and counterclaim, with costs.

# New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

PORTERS (BLACKPOCL), LTD. (P.C.).—Capital, 2,000/. Objects: To take over the business of a manufacturer of insect poison in the form of tablets known as "Killezee Tablets," carried on by A. Porter at 18 Elizabeth Street, Blackpool. R.O.: Platt Street, Blackpool.

HERBERT SAVAGE & Co., LTD. (P.C.)—Capital, 5,000l. Objects: To carry on the business of manufacturers, importers, exporters, and refiners of and dealers in essential oils, fats, perfumes, essences, soap, grease, spirits, drugs, drysplatery etc., R.O., 84 Chappery, Lane, London, W.C.

drysaltery, etc. R.O.: 84 Chancery Lane, London, W.C. "DAISY," LTD. (P.C.).—Capital, 2,000!. Objects: To carry on the business of wholesale and retail chemists and druggists, etc. The first directors are: Mrs. A. Jones, Grove House, Horsforth: J. E. Ell's, 8 St. Michael's Road, Headingley, Leeds; and J. Wormald, 10 Park Row. Leeds. R.O.: 50 Wellington Street, Leeds.

Bennison and Evans, Ltd. (P.C.).—Capital, 1,000t. Objects: To carry on the business of chemists and druggists, etc. The subscribers are: G. H. Evans, Cleveland House, Antrobus Road, Acton Green, W., and W. Bennison, 2 Shawfield Street, Chelsea, S.W., chemist. R.O.: Cleveland House, Antrobus Road, London, W.

SISTER LAURA'S INFANT AND INVALID FOOD CO., LTD. (P.C.).—Capital, 20,000l. Objects: To carry on the business indicated by the title. The first directors are: E. Watson, W. Watson, R. S. Watson, Elmbank, Clynder, Dumbartonshire; W. C. Cowan, 156 St. Vincent Street, Glasgow; and F. Rippin, Heathcote, Lenzie. R.O.: 156 St. Vincent Street, Glasgow.

Damancy & Co., Ltd. (P.C.)—Capital, 10,000/. Objects: To take over the business of a vendor of pharmaceutical preparations carried on by Clara W. Broome, at 41 High Street, Harrow-on-the-Hill, as "Damancy & Co." The first directors are: Miss C. W. Broome, 41 High Street, Harrow-on-the-Hill, and F. W. French, 13 Rosslyn Crescent, Wealdstone. R.O.: 41 High Street, Harrow-on-the-Hill.

SLATTER & STOPFORTH, LTD. (P.C.).—Capital, 1,000%. Objects: To carry on the business of chemists, druggists, perfumers, drysafters, oil and colour men, opticians, dealers in photographic apparatus, cameras, etc., and to adopt an agreement with F. Stopforth and W. Slatter. The first directors are: W. Slatter. 98 High Street, Cheltenham, and F. Stopforth, Daisyville, Cheltenham. R.O.: 93 High Street, Cheltenham.

Southall Bros. & Barclay, Ltd.—The report of directors for the year ended December 31, 1919, states that, after providing for bad debts, depreciation, excess profits duty, income tax, and directors' remuneration, there is a balance of profit for the year of 32,159l. 12s. 2d. To this must be added the sum of 15,174l. 2s. 11d. which was carried forward last year, making a total of 47,333 15s. 1d. Out of this has been paid an interim dividend on preference shares of 2,750l., leaving a balance of 44,583l. 15s. 1d., which the directors recommend should be appropriated as follows: Second half-year's dividend on preference shares at the rate of 5 per cent. per annum (paid Junuary 1, 1920), 2,750l.; year's dividend on ordinary shares at the rate of 10 per cent. per annum, free of income tax, 8,600l.; bonus of 1s. per share on ordinary shares, free of income tax, 4,300l.; to be written off goodwill. patents, etc., 6,000l.; to be carried to reserve, 6,000l.; balance to be carried forward to next account, 16,933l. 15s. 1d., making a total of 44,583l. 15s. 1d. Messrs. T. Barclay and W. E. Hipkiss retire from the board, but, being eligible, offer themselves for re-election.

WRIGHT, LAYMAN & UMNEY, LTD.—The report of directors for the year ended December 31, 1919, shows that the year's trading has proved satisfactory. The accounts show that, after providing for bad debts, depreciation, income tax, and balance of excess profits duties for 1918, and reserving for those on 1919, there is a trading profit of 34,826l. 8s. 11d. Adding the amount brought forward from last year (1,333l. 14s. 6d.), there remains to the credit of profit and loss 36,160l. 3s. 5d. From this the following apprepriations have been made: Dividend of 6 per cent. on preference shares, less income tax, 3,780l.; interim dividends of 10 per cent. on ordinary shares, less income tax, 3,150l.; directors' fees, 4,483l. 6s. 8d., leaving a balance of 24,746l. 16s. 9d. From this amount the directors recommend a further dividend of 16 per cent.. making 20 per cent. for the year, less income tax, absorbing 3,150l., and a bonus of 1s. 6d. per share on the ordinary shares, absorbing, less income tax, a further 2,362l. 10s., and transferring 15,000l. to reserve fund; leaving a balance of 4,234l. 6s. 9d. to carry forward. It is with the very greatest regret that the directors have to record the death on October 9 last, of their colleague, Mr. John Charles Umney, who was associated with them in the management since the inception of the company. Mr. E. B. Layman retires by rotation and offers nimself for reelection.

# Chemical Society.

AT the meeting of the Chemical Society held at Burlington House on March 18, Sir James Dobbie, F.R.S., in the chair, after the ballot for the election of honorary and foreign Fellows, Dr. H. E. Fiertz, of Basle, read a paper on the Electrolytic Reduction of Nitronaphthalenesulphonic Acids. The reduction of these acids is a matter of importance to dye-works, and the process requires a considerable amount of sulphuric acid. The author described the differences existing between the four acids known and employed in the production of dyes, and their reduction by electrolysis, as a considerable advance over the method ordinarily adopted. While by this process reduction was obtained in the case of the Erdmann, Laurent, and Koch acids, the fourth acid of this group refused to go further than its hydroxylamine compound. The author discussed at length the possible explanations advanced to explain this inexplicable behaviour on the part of this one acid.

The next paper was read by Miss P. L. Vanderstichele (with H. Crompton), on The Use of 1:2 Dichlorvinylethyl Ether for the Production of Chloracetotes and Acid Ohlorides. The action of a number of alcohols on this product was studied by the authors, who obtained a satisfactory yield of ethyl, methyl, etc., even menthol chloroacetate, as was also the case when submitting it to the action of acids. On treating it with water and hydro-

chloric acid, it yields chloroacetic acid.

In his paper on An Electronic Theory of Isomerism, Mr. W. E. Garner advanced a new theory to explain differences in optical activity. The atom is a nucleus surrounded by electrons in movement, rotating around it, and distributed in North and South polar valency. Thus the carbon atom will have two of each of these two polar valencies, and it is apparent that the arrangement of these valencies around the atom, and also in conjunction with other atoms of carbons, may vary. The author discussed the distribution of the polar valencies in the diamond crystal and in sugars. He instanced the behaviour of malic acid, which exhibits a different optical activity in crystal form and in solution, and suggested that this variation in its optical rotation was due to a different distribution of its polar valencies, and that the difference in behaviour was attributable to a different arrangement of the rotating electrons in its crystalline form and when in solution. This would also serve to explain the differences between the  $\alpha$  and the  $\beta$  sugars, and cases where the chemical constitution of two bodies being identical, yet they exhibit variations in optical rotation.

The next paper, on The Composition of Salvarsan, was a communication from the Wellcome Chemical Research Laboratories by Professor F. L. Pyman and Mr. R. G. Fargher, was read by the latter. Commercial salvarsan, prepared by the reduction of 3-nitro-4-hydroxyphenylarsinie acid by means of sodium hyposulphite, solution of the 3:31-diamino-4:41-dihydroxyarsenobenzene so obtained in methyl alcohol containing hydrogen chloride, and precipitation of the salt by means of ether, is generally regarded as 3:3'-diamino-4:4'-dihydroxyarsenobenzene dihydrochloride containing combined solvent. The latter, according to the earlier work of Ehrlich and Bertheim, is methyl alcohol, and it has been suggested recently by Kober that the variable toxicity of salvarsan can be accounted for on this assumption. On the other hand the circulars of the first makers, the Farbwerke vorm. Meister Lucius u. Brüning, suggest that the combined solvent is water. It has now been shown that the retained solvent consists almost entirely of water, support for the view being adduced from the elementary analysis of salvarsan and direct estimation of methyl alcohol, the amount present varying from nil to 1.4 per cent. The replacement of ether by acetonc in the precipitation leads to a product which, in addition to the customary solvent which can be removed in a vacuum, contains a molecular proportion of acetone. It was originally indicated by Ehrlich and Bertheim that the crude

attached to arsenic which was removed by conversion into the hydrochloride. The authors found, however, several years ago, that commercial salvarsan of both British and German origin invariably contained sulphur, the amount varying generally from 1 to 2 per cent. As the result of a comprehensive series of experiments it was concluded that at least a portion of the sulphur was present in acidic form, most probably as a sulphaminic acid, R.NH.SO<sub>3</sub>H, and a product closely approximating in composition to the hydrochloride of the monosulphaminic acid of salvarsan (HCl, NH<sub>2</sub>) (OH) C<sub>6</sub>H<sub>3</sub>.As<sub>2</sub>.C<sub>6</sub>H<sub>3</sub> (OH) (NH.SO<sub>3</sub>H) was actually isolated. The presence of this product, which could be estimated quantitatively with some degree of accuracy, did not as a rule account for the whole of the sulphur, and evidence was given in support of the assumption that a proportion of the remainder was attached to arsenic. It was also suggested that owing to the fact that salvarsan possessed some of the properties of a colloid, sulphur might be present merely in physical association. The last section of the paper dealt with the preparation of pure diaminodihydroxyarsenobenzene dihydrochloride, the most satisfactory process being the reduction of 3-amino-4-hydroxyphenylarsinic acid with hypophosphorous acid. It is interesting to record that a specimen of this pure material tested by the Medical Research Committee proved to be more than normally toxic.

# Isolation of the Active Principle of the Thyroid Gland.

Among the achievements of biological chemistry the isolation in a crystalline form, and as a definite chemical body, of the blood-raising principle present in the suprarenal capsule marks a distinct epoch, and the investigations to which adrenalin has since its discovery been submitted have removed the veil from many processes connected with the life of the organism. Now comes the news from America of another great stride forward in our knowledge of biology, of a discovery that may have far-reaching effects on therapeutics. E. C. Kendall, working in the clinic of the Brothers Mayo, of Rochester, has succeeded in isolating in a crystalline form the iodised active principle of the thyroid gland, that mysterious body which seems to play such an exceedingly important rôle in living processes. In the "Journal of Biological Chemistry" (Vol. xxxix.) he reviews his investigations on this point, which began so far back as 1910. At first he used barium salts to separate this substance, to which the name of "thyroxin" has been given, and first succeeded in isolating it in December 1914, the total amount obtained being 100 milligrams. In February 1916 the action of carbonic acid on the process of isolating this body was discovered, resulting in the production of 7 grams by May 1917. This amount was used to ascertain the chemical structure of the new body, and based on these findings, Osterberg succeeded in preparing a small quantity of thyroxin by synthetic methods. At the time of publishing his paper, the author had succeeded in preparing about 35 grams of thyroxin from 3,275 kilograms of fresh thyroid glands, obtained almost exclusively from pigs. The yield consequently works out at the ratio of I gram of thyroxin for 100 kilograms of thyroid gland. The following process was adopted: The fresh thyroid glands are hydrolysed in a 5-per-cent, soda solution. The fats are removed by being transformed into insoluble sodium soap. The alkaline filtrate is acidified after cooling, and the precipitate thrown down contains practically the whole of the thyroxin present. This precipitate is separated and dissolved in a solution of soda, and again precipitated by the addition of hydrochloric acid. precipitate, after drying at ordinary temperature, solved in alcohol (95 per cent.), and to neutralise the remaining excess of hydrochloric acid present in this dried precipitate, solution of soda is added, which gives rise to a compact, black, and sticky precipitate, which is separated by filtration. To the alcoholic filtrate a very concentrated hot aqueous solution of barium hydroxide is added, and base from the hyposulphite reduction contained sulphur I the mixture is boiled under a reflux condenser to remove

all the impurities and colouring matter present. A trace of soda is added to the filtrate, through which a current of carbonic acid gas is passed, whereupon the carbonates which have formed are removed by filtration, and the alcohol by distillation. Hydrochloric acid is now added to the aqueous solution, the precipitate thrown down is dissolved in an alkaline alcoholic solution, and the latter saturated with carbonic acid gas. The solution is filtered, the alcohol removed by distillation, and after standing for a time the mono-sodium salt of thyroxin separates out. The latter is purified by dissolving it in an alkaline alcoholic solution, then saturating with carbonic acid gas, and distilling off the alcohol; the same operation may be repeated five or six times, using acetic acid in the place of carbonic acid, until the thyroxin is obtained in a pure state. The author describes thyroxin as "4-5-6-hydro-4-5-6-iodo-2-oxy- $\beta$ -indolpropionic acid," of the empiric formula  $C_{11}H_{10}NO_3I_3$ .

It occurs in three different forms: (1) A ketonic form:

HIC 
$$C = C - CH_2 - CH_2 - COOH$$
HIC  $C = COOH_2 - CH_2 - COOH_2$ 
HIC  $C = COOH_2 - CH_2 - COOH_2$ 

(2) A tautomeric enolic form:

HIC 
$$CIH$$

$$C = C - CH_2 - CH_2 - COOH$$

$$COH$$

$$COH$$

(3) With an open pyrrolic nucleus, due to fixation of H2O, so that this body possesses both the characters of a di-acid and of a primary amine :

HIC CH 
$$C = C - CH_2 - CH_2 - COOH$$
 $C = COOH$ 
 $CH NH_2$ 

The author states that the first form is the anhydride of the third, and these bear the same relationship to each other as creatinin to creatin. The third form is, therefore. "thyroxin," and occurs as such in the thyroid gland; it cannot be obtained in crystalline form, but crystallises only on being converted into its anhydride. Kendall found that during the months of January, February, and March the glands contain only a slight percentage of thyroxin, whereas during the summer months there is an increase amounting to 400 per cent., and this is the time when the glands should be used for the extraction of their thyroxin.

# Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration. See "The Chemist and Druggist Diary" 1920, p. 308.

(From the "Trade-marks Journal," February 11, 1920.)

"Seekay Brand" under monogram "C. K." ("Seekay" disclaimed); for all goods (1) and for bleaching-powder (47). By the Castner-Kelmer Alkali Co., Ltd., 13 Abchurch Lane, London, E.C. 4. 397,948/9. (Associated.) "Ledoud"; for chemicals (1). By L. Berger & Sons, Ltd., 201 Morning Lane, Homerton, London, E. 9.

"Ledquid"; for chemicals (2).
Ltd., 201 Morning Lane, Homerton, London, E. 9.
398,629.
"Limette"; for fertilisers (2). By W. H. Hyatt, 2 Springfield Road, Kingston-on-Thames, and E. N. Fellowes,
1 Great Winchester Street, London, E.C. 2. 395,596.
"Lucky Badge," "Lucky Seal," and "Lucky Charm,"
with Swastika device; for chemicals (2). By W. Gossage
& Sons, Ltd., Widnes. 397,774/778/782. (Associated.)
"Wrsol."; for chemicals (2). By The British Drug Houses,
Ltd., 22-30 Graham Street, City Road, London, N. 1.
398,063.

"Alvesoo"; for chemicals (2). By Murphy & Son, Ltd., 2 Dorset Square, London, N.W. 1. 393,246.
"Tioformolo Brand Tiofdrocarburg Formaldetdato"; for a medicine (3). By Società Industrie Chimiche Ittiolo, 24 Via Medina, Naples, Italy. 389,212. (Associated.) "Clearite"; for medicinal chemicals (3). By Lotty E. Jones, 6 Bennett Street, Garston, Liverpool. 395,640.
"Algoran Brand, a Medicinal Preparation." for a medicine for allaying pain (3); "Felamine Brand, a Medicine for allaying pain (3); "Felamine Brand, a Medicinal Preparation." for a gallstone medicine (3). By Sandoz Chemical Works, 60 Fabrikstrasse, Basic, Switzerland. 396,796/797.
"Nocteption Brand, a Chemical Substance"; for a chemical (3). By J. A. Harrison, 36 Robin Lane, Pudscy, Yorkshire. 396,941.
"Aseplene"; for all goods (3). By J. G. Sparkhall, 29 King Street, Covent Garden, London, W.C. 2. 393,165.

398.165.

29 King Street, Covent Garden, London, W.C. 2, 398,165.

"Crescent Brand B. M. & Co.," with crescent device; for dyes (4). By Brunner, Mond & Co., Ltd., Winnington, Northwich, Cheshire. 397,890. (Associated.)

"Exquisia" and "Lavandexquisia"; for essential oils (4). By W. H. Hobbs & Co., Ltd., 1, 2, and 3 Trinity Place, London, E.C. 3, 393,047/048. (Associated.)

"Lemef"; for all goods (8). By C. Flint, 81 Rushey Green, Catford, London, S.E. 6, 397,755.

"Paradar"; for food substances (42). By J. Pascall, Ltd., 100 Blackfriars Road, London, S.E. 1, 397,621.

"Ceregen"; for all goods (42). By John Bell Hills & Lucas, Ltd., Oxford Works, Tower Bridge Road, London, S.E. 1, 397,645. (Associated.)

"Crossed Bay Leaves Brand" under picture of two bay leaves; for perfumery and preparations made of bay leaves (48). By F. J. Smith, 28 Rylett Road, Shepherd's Bush, London, W. 12, 396,927.

"Parfus Fontanis" on bas relief representing flower gatherers; for perfumes (43). By D. Jaquet, 38 Boulevard de la Saussaye, Neuilly-sur-Seine, France, 397,538.

Circular device, including letter "B" and rose, surrounded by firm's title ("B" diselaimed): for perfumery, etc. (48). By H. Bronnley & Co., Ltd., Warple Way, Uxbridge Road, London, W. 3, 397,623.

"Willowaye," for hair preparations (48); "Pruh," for toilet articles (48). By Ada Fisher, 345 Archway Road, Highgate, London, N. 6, 397,799/800.

"Berceuse de Fleurs": for perfumery, etc. (48). By Areco, Ltd., 11 Southampton Row, London; W.C. 1, 397,913.

"Barchlan"; for perfumery, etc. (48). By J. J. and

Areco. Ltd., 17 Southampton Row, 2397,913.

"Barcillan"; for perfumery, etc. (48). By U. J. and M. J. Watson. 196 Stockport Road, Levenshulme, Manchester. 398,204.

"ICIBURN": for perfumery, etc. (48). By Boot's Pure Drug Co., Ltd., 37 Station Street, Nottingham. 398,655.

(From "The Trade-marks Journal," February 1, 1920.)

"Herwhit"; for chemicals (1). By H. Whitworth, Ltd., 115 Princess Street, Manchester. 397,652. (Associated.) "FLOGLAZE"; for chemicals (1). By the Imperial Varnish and Colour Co., Ltd., 3 Morse Street, Toronto, Canada. 207,265.

and Colour Co., Ltd., o Morse Section 397,805.

"OREX": for chemicals (2) and for food substances (42).

By Menley & James, Ltd., Farringdon Road, London, E.C. 1. 396,663/4. (Associated.)

"Antifect"; for chemicals (2). By W. McKechnie & Son, 40 St. Enoch Square, Glasgow. 397,230.

"Crombissol.": for spraying disinfectants (2). By J. Crombie, 323 Paisley Road West, Glasgow. 397,289.

"Naxan," forming device for all goods (2). By Howard, Stevens & Co., Ltd., 20 Highgate Road, London, N.W. 5. 397,461.

Stevens & Co., Ltd., 20 Highgate Road, London, N.W. 5. 397,461.

MANZAN BRAND OINTMENT"; for pile ointment (3). By W. R. C. Ashby, 44 Rathbone Place, Oxford Street, London, W. 1. 390,133.

Thos. Evans Bronchial Syrup" and device, including classical figure holding bottle; for bronchial syrup (3). By T. Evans, 114 Upper Richmond Road, Putney, S.W. 15. 391,541.

S.W. 15. 391,541.

"POLORIS BRAND DENTAL POULTICES"; for dental poultices (3). By the Washington Drug Products Co., Inc., 29 West 125th Street, New York, U.S.A. 395,580.

"VINHO VIGOR TONIC PORT," etc., on label, with device composed of letters "V V T P"; for a medicated port winc (3). By M. P. Guimaraens & Son, 42 Crutched Friars, London, E.C. 3. 395,588.

Device of two handbells and letter "B" on oval ("B" disclaimed); for powders, tablets, and scurf pomade (3). By H. H. Farrar, 11 Chapel Lane, Meanwood, Leeds. 396,691. (Associated.)

"Medisoap"; for all goods (3). By C. Midgley, Ltd., 5 Mayes Street, Manchester. 396,693.

in compounding.

# Principles of Continental Drug Tariffs.

The inclusion in the Kingdom of Italy of territories formerly, belonging to Austria, in which the Austrian drug tariff formed the basis of all charges for compounding prescriptions, has necessitated the elaboration of a new drug tariff for these districts, with due regard to their relations to Italy. The draft of this recent tariff has now been submitted for discussion to the pharmaceutical associations in these territories, prior to its introduction. The pricing of a prescription is based on the principle of a charge for the ingredients and a fee for the work entailed

To obtain the tariff charge for a drug, the average wholesale price for the amount usually purchased by pharmacists is calculated from the price lists of the more important wholesale houses of the kingdom. In the case of official drugs, 50 per cent. is added, and in the case of non-official drugs 100 per cent, is added to the cost price. To obtain the charges for the units below that of the standard amount, each unit is divided by eight. For instance, to obtain the tariff charge for 100 grams, the kilogram price (wholesale cost plus 50 or 100 per cent.) is divided by eight; to obtain the charge for 10 grams the price for 100 grams is divided by eight, and so forth. Galenical preparations will be calculated in the same manner as if they were prescriptions, taking as the standard unit 1,000 grams, or in the case of preparations containing potent drugs, 100 grams. Pills, tablets, capsules, granules, etc., dispensed in accordance with a prescription, and not sold in the original container, if purchased ready made, are to be charged at the same rate as if they had been compounded on a prescription. With regard to specialities sold in original containers and supplied by other pharmacists or by manufacturers, these are required to bear on the label the sale price fixed by the maker and the formula, and the pharmacist is not permitted to avail himself of the right to calculate the sale price on the basis of the prescription tariff. On the other hand, in the case of specialities prepared by himself and sold in the owner's pharmacy only, the label must indicate their composition, and the price, which he is permitted to calculate on the basis of the prescription tariff. Drugs which may be sold over the counter without a prescription are to be retailed with a net increase of 50 per cent. on the wholesale cost.

The fees for compounding a prescription are enumerated in a table comprising thirty-four different kinds of manipulations. If a prescription calls for several manipulations in compounding it, only the highest charged manipulation may be reckoned. Appended are a few of the charges for manipulations, the amount in the first column being applicable to ordinary prescriptions, that in the second column to sick club prescriptions:

	Private	Sick-club
Compounding Charges	Prescriptions	
Infusions, up to 250 grams	10d.	7d.
Tablets. the first 10, each	13 $d$ .	1d.
Mixing 2 or more powders, or liquids,	2 '	
up to 100 grams	$6\frac{1}{2}d$ .	$4\frac{1}{2}d$ .
Mixing 2 or more powders, to be	-	-
divided	4 1.7.	3d,
In addition, for making up to 20	-	
powders, each	$\frac{1}{2}d$ .	1 d.
In addition, for each cachet	13d.	1d.
Pills, up to 10, each	$\bar{a}d$ .	3d.
Pills, over 10, up to 100, each	$\frac{1}{2}d$ .	$\frac{1}{4}d$ .
Sterilisation, up to 30 grams	1s. 3d.	10d.
For each ampoule, in addition	1d.	$\frac{1}{2}d$ .
Suppositories, up to 10, each	2d.	$\tilde{1}_{\overline{4}}d$ .
Ointments, up to 20 grams	8d.	4 ½ d.
Decoctions, up to 250 grams	13.	8d.

In addition, a fixed charge of  $4\frac{1}{2}d$ ., or 3d. for sick-club prescriptions, will be made for every prescription compounded; if the latter calls for potent drugs, this charge will be 6d. and 4d. respectively.

All surgical appliances, such as bandages or absorbent wool, are to be retailed with an increase of 20 per cent., or for sick-club patients, 15 per cent. on the cost price. If these appliances are medicated, the increases are to be 50 and 35 per cent. respectively. In the case of indiarubber goods, the sale price is obtained by adding either 75 per cent., or 50 per cent., to the cost price. Containers of all kinds are to be charged at the rate of 100 per cent. on the cost price, or 50 per cent. for sick-club work.

In the case of prescriptions for sick-club patients and for persons dependent upon charitable organisations, the tariff charges for the drugs are to be calculated on the bases indicated in the foregoing, with this difference that, instead of adding 50, or 100, per cent. to the wholesale cost of the unit, only 30 per cent. is to be added in the case of official and 60 per cent. for non-official drugs. Therefore, there will be in reality two tariffs, one for private prescriptions and another for sick-club patients: this takes the place of deducting a certain fixed percentage in the case of sick-club prescriptions which is the method in force in some countries with national-insurance legislation. In addition, the pharmacist will be obliged to grant an extra rebate to all sick clubs and similar institutions on the annual total amount for prescriptions filled on behalf of their members. If the annual total is between 60l. and 120l., this discount will amount to 5 per cent. of the total; if over 1201., he must deduct or refund 10 per cent. on his total turnover in prescriptions during the year for that sick club. However, in the case of pharmacists whose business is very modest, or whose clientèle is principally recruited among members of sick clubs, the obligation to grant this extra rebate may be cancelled on application to the authorities.

# Highland Dyes.

In an interesting communication by Mr. Alexander McCutcheon, read before the North British Branch of the Pharmaceutical Society (C. & D., vol. xci., p. 386), evidence was given of the intelligent, medicinal use to which the Highlanders of Scotland put the local vegetation. In the light of modern experience, medicines appear to be intimately associated with dyes, and for the seeker of coincidences it is an easy step to establish that the knowledge of dyeing must have been well advanced in the Highlands of Scotland—as witness the tartans—long before the momentous discovery of Perkin was a possibility. When mordants were recessary ammonia and alum were in most frequent use. It is interesting to note that the characteristic odour of "Harris tweed" is due to the peat which the islanders (of Harris in the Hebrides) are said to use as a dye. The following is a list of some of the native Highland dyes, with their Gaelic and English names attached:

Colour	Gaelic name	English name
Black	. Bun na Copaig	Dock root.
22 *** *	73 (3 7 191 9 1	777 ( 2
11	Di Ci	
Blue		
11 111 1		731 2 1
Brown		
		in a
11	Dunne James To all	701 1 ( 2 7
,, (dark) .		
;; (aara) .	cnomhan-domblais	Blueberry with galls.
Crimson .	Contal	White lichen.
, dark.	1. 17	201 1 1 1 1
Flesh colour .	Calut al aller	777777 3 3
C		
0	D al al 11	To the state of th
	70	
/ 22		
	. Lus-an fhùcadair	
Magenta	70	
O		
Purple ,.		
111 · · · · ·		
Red		Rock lichen.
11 *** **		White lichen.
		Tormentil.
Scarlet		Limestone lichen.
Violet		Wild cress,
Υeilow		Bog myrtle,
,,	Bun-na-rainich	Bracken root.
,, ,.	Crotal	(A lichen).
,,	Lus chaluim chille	St. John's wort.
,,	Lus-an-fhicadair	Teasel
,,	Fraoch, le alm	Heather with alum.
11	Lus-na-fèarnaich, le	Sundew with ammonia.
	Siegh chabar-feidh	annionia.

# The Price of Aspirin.

The following are the Observations and Conclusions of a Sub-Committee appointed by the Standing Committee for the Investigation of Prices, and adopted by the Standing Committee under the Profiteering Act, 1919.

MEMBERS OF THE SUB-COMMITTEE.

Mr. G. W. Bailey (chair-

man).
Dr. G. O. Hawthorne,
Dr. G. F. McCleary.
Mr. W. H. L. Patterson.

Mr. F. A. Hocking. Mr. P. F. Rowsell. Mr. W. Marshall Freeman, Ir. S. D. Ber M.I.M.E., M.I.A.E. Mr. Begbie,

The report is as follows: TERMS OF REFERENCE.

(1) We were appointed to investigate the prices, costs, and profits at all stages of drugs and medicinal tablets and preparations, proprietary and otherwise.

We have held seven meetings, in the course of which we have investigated the present position of the prices of aspirin and aspirin tablets in this country, and it is on this subject we now have the honour to submit a report.

# PRELIMINARY OBSERVATIONS.

(2) Having regard to the terms of reference, and to the probability that we may later have to make investigations with respect to articles other than aspirin, we have considered that it would be of advantage during this first investigation to make inquiry into, and to report upon, the system of production and distribution under which at the present day drugs and medicinal prepara-tions are provided and supplied for the public use. To this end we obtained certain evidence of a general

character, and our findings in regard to this may be taken as applying more or less to all the articles within

our terms of reference.

These articles—that is, medicines and medicinal preparations—are in Great Britain mainly distributed to the public at some 10,000 retail pharmacies. In addition, there are some 20,000 persons other than pharmacists licensed to sell "patent" medicines. There exist also in the larger towns "Stores" which deal in a great variety of articles, and some of these include a retail pharmacy in their organisation. Some manufacturers of medicines and medicinal preparations sell only or mainly to wholesale druggists, who in turn sell to the retail pharmacists. Other manufacturers act also as wholesale druggists, and sell direct to the retail pharmacists. There are, further, wholesale druggists who own retail shops, and thus combine both wholesale and retail activities. In each of these cases it is the retail pharmacist who sells to the public. The production and distribution of aspirin and aspirin tablets are affected by all the methods above described. The main supply, no doubt, reaches the public through retail pharmacists, but aspirin is sold also by stores and other retailers.

We find that the business of a retail pharmacist is, in certain respects, of an exceptional character-e.g., the turnover is, both in gross and in detail, of very small monetary value, and the business stock is very varied in character. Such a business, we think, cannot be treated as regards rate of profit on the same trade basis as a business with a large turnover confined to comparatively few

arricles

We find that the methods of business adopted by the various manufacturers of medicines and medicinal pre-

parations vary in that :-

(a) Certain of these firms spend large sums in advertising their products, and the public demand thus created compels the pharmacist to stock these articles, even though the percentage of profit allowed on them is small.

(b) Some firms spend but little in propaganda, but indicate to the public selling prices which allow a relative to the public selling prices which allow a relative to the public selling prices which allow a relative to the public selling prices which allows a relative to the public selling

tively large percentage of profit to the retailers, and in return they expect to be rewarded by a relatively larger amount of preferential pushing of their products by the

(c) Other firms, being still in an early stage as regards manufacture of medicinal agents, not only spend large sums on propaganda with a view to establishing their products and to securing a public demand for them, but also fix a selling price to the public which allows both wholesaler and retailer a comparatively large profit.

THE PROPRIETARY ARTICLES TRADE ASSOCIATION.

(3) In connection with the general aspect of the question, the Committee deemed it desirable to obtain the evidence of Sir William S. Glyn-Jones, the secretary of the Proprietary Articles Trade Association. Sir William stated that this association was formed in 1896 with the object of protecting the small retail pharmacist against the price-cutting methods at that time practised by the stores and others. The association has developed into an organisation in three sections: (a) proprietors, (b) wholesale distributors, and (c) retail distributors some 310 firms owning proprietary articles are members. The association is governed by a council of thirty-six members, twelve being manufacturers, twelve wholesalers, and twelve retailers, and at present it exercises control over the prices of practically 3,000 proprietary articles. Some 310 manufacturing or owning firms and 20,000 to 30,000 retailers are concerned in the production and sale of these articles.

The objects of the association were stated by Sir William to be to determine a "fair rate of profit" for both wholesaler and retailer, the profit being aimed at as "fair" being usually at the rate (in terms of the respective selling prices) of  $12\frac{1}{2}$  per cent, to the wholesaler and

25 per cent. to the retailer.

Price-cutting is avoided by an agreement to the effect that any person selling any article on the association's list at a price lower than that fixed by the association is liable to be refused a supply of all the articles included in this list. Without such a protective arrangement the profit made on many of these articles would probably become so small that the retailer would be disinclined to deal in them, and ready distribution to the public might in this way be hindered.

The retail pharmacists examined by the committee expressed appreciation of the association for the reason that, in their view, it ensures a fair remuneration for the retailer by affording protection against price-cutting, without any undue increase of the price to the public.

# EVIDENCE OBTAINED ON ASPIRIN.

(4) We have taken evidence in great detail on the cost of manufacturing and on the selling price of aspirin and aspirin tablets, from twelve witnesses, representing manufacturing, wholesale, and retail interests.

We have made use also of a valuable memorandum on costs of manufacture of tablets from acetyl salicylic acid (the chemical name for aspirin) compiled by Mr. F. A. Hocking) from his experience as pharmaceutist at the London Hospital, where the staff make their own tablets

for hospital use.

The evidence shows that "Aspirin' is one of several trade names for acetyl salicylic acid, and that before the war this name was the exclusive property of the Bayer Co., of Elberfeld, Germany, and could be applied only to the acetyl salicylic acid manufactured by this firm. After the outbreak of war, however, certain British manufacturers began to experiment with a view to the manufacture of acetyl salicylic acid on a commercial scale, and during 1915 and 1916 several of them succeeded in this object.

The German trade-mark having lapsed, British acetyl salicylic acid was placed on the market under various names, of which aspirin is the best known, and for convenience in this report the word "aspirin" is used as a synonym for acetyl salicylic acid and the various other trade names applied to this substance, except where the

context indicates otherwise.

We believe that it would be well if at the first oppor-tunity the name "Aspirin" were included in the British Pharmacopæia as a synonym for acetyl salicylic acid, as the standard of purity prescribed for the acid would then become applicable to aspirin, for which there is at pre-I sent no official or pharmacorcecial definition.

War and Pre-war Prices of Acetyl Salicylic Acid and Aspirin ..

(5) Before the war the price of acetyl salicylic acid in bulk was about 2s, per lb., but for Bayer aspirin the price was about 18s. per lb., less various discounts, Immediately after the outbreak of war, the price of what was then being sold variously as aspirin or acetyl salicylic acid began to rise, and in 1916 the price exceeded 40s. per lb.; from this figure it gradually fell until during 1919 the price in bulk ranged from 3s. 10d, to 4s. 6d. per lb. One pound of aspirin represents approximately 1,400 five-grain tablets.

# Price of Aspirin Tablets.

(6) In the form in which aspirin is almost invariably supplied to the public—in bottles of 25 five-grain tablets -the fluctuations have been as follows:

In 1914 such a bottle containing tablets made of Bayer aspirin was sold retail at from 10d, to 1s. 3d., and such a bottle containing tablets of acetyl salicylic acid was retailed at prices ranging from 44d, to 9d. In 1919 the retail selling price of a bottle of 25 five-grain tablets of acetyl salicylic acid (sold as aspirin or under some similar

name) varied from  $5\frac{1}{2}d$ . to 1s. or thereabouts.

One firm puts up bottles of 35 tablets, the retail selling price of which is 2s.

#### Variations in Price.

(7) As illustrations of existing retail prices, we quote the following from the evidence before us:

Products of firm No. 1,  $5\frac{1}{2}d$ . per bottle of 25. Products of firm No. 2, 1s. per bottle of 25. Products of firm No. 3, 2s. per bottle of 35. Products of firms Nos. 4, 5, and 6, 10d. to 1s. per bottle of 25 (varying at different retail shops).

Through the courtesy of the Government Laboratory we have been able to ascertain that there is no substantial difference, either physical or chemical, between some seven varieties of aspirin tablets now on sale to the public, and that, in particular, certain of the less expensive tablets are in no way inferior to their more expensive

#### CONCLUSIONS.

(8) In summary, the evidence submitted to us justifies the following conclusions:

(a) That under present conditions aspirin tablets made from acetyl salicylic aeid which answers the tests demanded by the British Pharmacopæia can, when working with largo quantities, be manufactured and sold by the manufacturer, with a reasonable profit to him, at 58. 6d. per dozen screw-capped bottles of 25 five-grain tablets in each

(b) That aspirin in five-grain tablets packed 25 in a bottle can at present be purchased by the public at certain

shops at about 6d. per bottle.

(c) That this price means a very narrow margin of profit to the retail pharmacist, having regard to the conditions under which his business has to be conducted.

(d) That, on the other hand, the retail price of 1s. and upwards (for 25 tablets) at which certain brands of aspirin tablets are sold is excessive in relation to the cost of manufacture, even when due allowance is made for charges incurred in advertising and other methods of gaining publicity.

(e) Broadly speaking, the present range of prices at which aspirin tablets are sold, when allowance is made for the increased cost of labour, packing materials, etc., is not appreciably different from those prevailing before

(f) That should the Board of Trade deem it advisable to fix a maximum retail price to the public for aspirin tablets regard may well be paid to the manufacturer's price mentioned in paragraph (a) above. In our view, when aspirin is sold at 10d. per bottle of 25 five-grain tablets this price if tablets this price, if properly apportioned between the various interests, gives a reasonable profit to (a) the manufacturer, (b) the wholesaler, and (c) the retailer.

(g) That though the question of the possible promotion of the habit of self-drugging as a result of cheapening

the price of aspirin was raised by one of the witnesses, we have not judged a discussion of this issue to fall within the terms of our reference. We have, however, in the course of our inquiries noted that while on some packages the labels imply that the tablets should be taken only under medical direction, there are others on which no such limitation is alluded to, and it is even suggested that as many as 12 five-grain tablets may be taken daily, and apparently for an unlimited period.

In this respect it may reasonably be recalled that aspirin is sold by others than retail pharmacists, and that the purchaser is free to obtain whatever quantity her

# Organising the Drug-trade.

N.A.C.A. Meetings.

THE monthly meeting of the Bolton branch of the National Association of Chemists' Assistants was held on March 19, the President (Mr. Alleson) in the chair, The annual report of the association was received, as was alsothe draft constitution of the proposed amalgamation with the Drug Union. Mr. Salisbury was appointed delegate to the Manchester Conference to be held on April 5. The next meeting of the branch will be held on April 16.

THE Nottingham branch of the National Association of Chemists' Assistants is moving a resolution at the Easter Monday Joint Conference regarding the amendment of

the constitution, in the following terms:

The Union shall consist of two sections, A and B. Section A shall be open to pharmacists, technical chemists, their assistants who have received a recognised training, or their apprentices who are receiving a training. Section B-shall be open to all others employed in the manufacture and distribution, wholesale and retail, of drugs, chemicals, medical and surgical appliances, and toilet requisites.

Drug Union Meetings.

A SUCCESSFUL meeting marked the opening of the North London branch of the Amalgamated Society of Pharmacists, Drug and Chemical Workers. Mr. Todd was elected Chairman. A vote of thanks was accorded Mr. Jones (vice-chairman of the London Retail Branch) for hisvisit.

THE Southampton Branch of the Amalgamated Society of Pharmacists, Drug and Chemical Workers held a meeting recently, at which the secretary, who acted as delegate to the annual meeting held in London, gave his report. He also enlarged on the growth of the union, and spoke of the coming junction with the N.A.C.A.

# At the Counter.

Customer producing slip of paper with the words "Potsulphurata" written on. "The doctor told me to buy this for a bath, but I don't want the pot as I am going to use it at once.

Bright Boy: "A penn'orth of solid potassium, please." Pharmacist, with visions of Profiteering Tribunal, regrets it is not in stock.

From the Metropolitan Area come the following phonetics—in some cases "graphetics" would perhaps be the better description: Pop a top; salts of Ceylean; Potbick; Black die for black Close; stop a pursa; Phanasthan, Fanasphams, Fanny Seatin; flieses of bolshim; aramatic of affection; Surrock bux oil; oxsasted asas; silver latterly; gessfluit, Geusfluid, jaze fluid; Carrier Au Pepper; Imperiod Pills; Coggery Corgel; Tincture of gethsemane; a roll of S.P.C.K. films. The last-named might be of use in explaining the penultimate.

PRESCRIBED IN THE ARMY.—"A shilling's worth of mystic speck" was a written request received by an mystic speck was a written request received by the Edinburgh chemist lately. The youngster who presented the note returned from a family consultation with the key to the mystery: "It's cough stuff ma faither got when he wis ill in the Airmy," said the envoy.

# Festivities.

# Boots' (Swindon) Dance.

THE second annual dance organised by the staff of Boots, Ltd., Swindon, was held on March 22 at the Bradford Hall. About 120 guests took part, and the event was a great success.

# Southampton Assistants' Social.

The Southampton branch of the Amalgamated Society of Pharmacists, Drug and Chemical Workers held a successful social on March 16. About a hundred guests were present. Games, songs, and dances constituted the programme, and music was provided by the Misses Tiller and Bond. During the evening the chairman, Mr. Benest, spoke of the good work of the Union.

# Manchester Chemists' Smoker.

On March 17 the Manchester Pharmaceutical Association held a smoking-concert, Mr. A. Hershberg (President) in the chair, supported by Mr. P. F. Rowsell. An excellent entertainment was provided, in which Messrs. Frauklin, Vallance, Simmonds, Matz, and Taylor took part. During an interval refreshments were served, and a collection for the Benevolent Fund was made which, the President announced, reached over 20%.

# Boots' (St. Albans) Outing.

On March 18 the staff of Boots, Ltd., St. Albans, spent a pleasant afternoon and evening in London. Westminster Abbey was visited, and the party then proceeded to the Regal Café in Regent Street, where tea was awaiting them. Other parts of London were inspected, and a visit to a theatre concluded the outing. A vote of thanks was accorded to Mr. Vickers (the manager) for planning the arrangements.

# Exeter School of Pharmacy Dance.

A fancy-dress dance and social evening was given by the students of the Exeter School of Pharmacy to the cest of the University College on March 20. The prizes for fancy-dress, whist, and games were presented by Mr. F. P. Rowsell, J.P. (one of the originators of the school). As one of the governors of the University College he said he took a great interest in all concerning them. The duties of M.C.s were carried out by Messrs. Blackwell, Densem, Oates, and Bakcr.

# Glasgow Assistants' Whist-drive.

THE Glasgow pharmacists' employés held a whist-drive and dance at Charing Cross Halls on March 9, which proved to be a great success, over 150 being present. Mr. Thomas, whist steward, announced the following prize-winners: Misses A. Lander, McCallum, and Robb; Messrs. H. B. Dunn and J. Trotter. Dancing was afterwards engaged in. Mr. J. O. Chisholm (Lecturer in Pharmacy at Glasgow School of Pharmacy) acted as M.C., and was assisted by Mr. Kean. Mrs. Murchie presented the prizes to the whist winners.

# Pharmacists' Service Club Dinner.

The Pharmacists' Service Club held its first dinner at the Restaurant Frascati on March 18. The visitors were received by Capt. and Mrs. Atkins and about seventy sat down to dinner. Among those present were Sir William Glyn-Jones, Dr. Burnet, Major and Mrs. Crombie, Mr. Melhuish, Mr. Mallinson, and most of the officers of the Volunteer Corps. The toasts were few and the speeches brief, as an excellent musical programme had been provided. The loyal toast was followed by the silent toast—to fallen comrades. "The Club," proposed by Sir William Glyn-Jones, was responded to by Capt. Atkins. "The Ladies and Visitors," proposed by Mr. Skues, was responded to by Major Crombie. The musical programme included items by Miss Blanche Ide, Messrs. Milton Stanley, Jack Walker, and Arthur C. Chapman; Miss Edith Baldry acting as accompanist.

# Commercial Travellers' "Victory" Dinner.

A DINNER was held on March 19 at the Savoy Hotel in aid of the Commercial Travellers' Benevolent Institution,

and at the same time as a compliment to Mr. A. Seneschall, chairman of the board of management (Brand & Co., Ltd.), whose "Victory" appeal in 1919 realised 14,202l. for the charity. Mr. Stanley Machin (President of the London Chamber of Commerce) was in the chair. After the loyal toasts the chairman gave "The Commercial Travellers' Benevolent Institution," coupling with the toast the name of Mr. A. Seneschall, whose appeal had realised 50 per cent. more than any other collection made on behalf of the institution. He tendered thanks to Mr. Seneschall on behalf of



MR. A. SENESCHALL.

the whole fraternity of commercial travellers. The chairman handed to Mr. and Mrs. Seneschall handsome gifts including a silver tea-service, inkstand, and wristlet watch, as a token of the appreciation of members for their work on behalf of the institution. Mr. Seneschall suitably replied. The Prince of Wales has intimated his intention of presiding, if possible, at their next banquet.

# Allenburys Athletic Club.

The eighth annual dinner of the "Allenburys" Athletic Club was held in the Talbot Restaurant, London Wall, London, E.C., on March 24. Mr. F. W. Gamble occupied the chair, and he was supported by Mr. F. Capel Hanbury and Mr. J. Netherway. Upwards of 120 members of the staff and friends sat down to a capital repast. After the loyal toast the musical section of the programme was started on. In a humorous speech Mr. McCallum proposed "The Firm." After 203 years, he said, they were still going strong, and "Fair play and play the game" could be described as the motto of "A. & H." Referring to the work of Allen & Hanburys, Ltd., he said that "A. & H." looked after everyone from the cradle to the grave, and illustrated his statement by pointing out the value of Allenburys foods in infancy, the progress through the "Bynol" period, to old age, when "Polyglandin" came to the rescue. (Laughter.) Mr. F. Capel Hanbury, who replied, referred to the loss of Mr. Cornelius Hanbury and Mr. Dodd since their last social. He also spoke of the difficulties of the last five years, thanking the staff for their loyal work, and on expressing his hopes for a continuance in the future, the spontaneous outburst of applause which greeted him was fitting evidence that these are likely to be realised. The other toasts were "The Club," proposed by Mr. Netherway and seconded by Mr. F. Lucioni; "The Visitors," proposed by Mr. Petty and replied to by Mr. Wilkinson; and "The Chairman," proposed by Mr. Nye. The Champiouship Cup of the Wholesale Chemists and Druggists League, which was won by the "Allenburys" Cricket Club, 1912, 1913, and 1914, occupied a prominent place beside the chairman, and during the evening a flashlight photograph of the assembly was taken. The musical programme was contributed to for the most part by the staff, and constituted an important item of a very enjoyable evening.

#### Harrogate Chemists' Dinner.

The annual dinner of the Harrogate Pharmaceutical Association was held on March 12, after an interval of five years. Mr. H. F. Illingworth (President) took the chair, and was supported by the Mayor (Alderman J. Shepherd, J.P.), Mr. F. Pilkington Sargeant, Mr. F. G. Hines, Mr. R. Broadhead, Councillor Lambert Foster, Councillor A. Mortimer, and many of the past Presidents of the association. After the loyal toast, the Chairman proposed the toast of "The Pharmaceutical Society." He

remembered some years ago, when Mr. Edmund White was the guest of honour at the annual dinner, that he said the further north he went the more severe was the criticism of the Pharmaceutical Society. He could not say that he intended to criticise the Pharmaceutical Society severely; in fact, at the present time he had nothing but praise for that body. When he looked back at the period before the war and compared it with the present, they would realise the advantages that had accrued as a result of the work of the Society. He attributed the great influx of apprentices in their ranks to better conditions, and he was pleased to say that they were getting the right type of assistants, who would, as time went on, make most excellent pharmacists. One cannot but note the advent of ladies into pharmacy. They had a lady on the Pharmaceutical Council, and he hoped that in the near future they would have a lady President. The excellent work which had been done by the Council was due to having such able members as Mr. Currie, the President, and Sir William Glyn-Jones, the secretary. The toast was coupled with Mr. F. Pilkington Sargeant and Mr. Frank G. Hines. Mr. Sargeant said it was gratifying to hear the chairman say that he had no real criticism to make of the Council of the Pharmaceutical Society. It was to him the sign of the loyalty of young pharmacists that there were over 3,800 applications for Government aid for interrupted studies. During the war the Society had realised that its main object was not merely the protection of the public, but the protection of the pharmacist and to elevate him to the position that he ought to occupy, but had not done so up to the present. An ill-equipped or ill-educated pharmacist was always a danger to the public, and he must of necessity be illremunerated. He went on to say that the Society was supplying parcels of books for the ex-Servicemen's preparatory course of study, prior to going to college. He made a strong appeal to the members of the local associa-tions to take a keener and more active interest in the affairs of their local association and also in the parent Society. The greatest reward he could receive for his work would be to see chemists a bit less apathetic. Mr. F. G. Hines also responded, and dealt with the present critical time in the history of pharmacy, showing how we were on the eve of a great alteration. There was much to be done to absorb the ex-Servicemen into their right sphere of work. It was only by ensuring that qualified men were employed as dispensers in the public service that this would be possible. Pharmacy will have to undergo great changes in the immediate future. He realised the importance of the Pharmaceutical Council, of which he is a member. "The Town and Trade of Harrowhich he is a member. "The Town and Trade of Harrogate" was proposed by Mr. A. W. Wood, a past President, and the Mayor replied. Mr. T. E. Handford, another past President, proposed the toast of "The Visitors." Mr. J. W. Harper proposed the toast of "Kindred Associations," which was responded to by Mr. N. N. Armitage (Leeds), Mr. Broadhead (Batley), and Mr. F. E. Burdett (Bradford). Councillor A. Mortimer proposed the toast of "The President," which received hopeing a programme of musical honours. During the evening a programme of music and stories was provided by Messrs, Drake, G. J. R. Parkes. Lambert Foster, and Mortimer. The singing of 'Auld Lang Syne' brought a very pleasant gathering to a close.

# London Chemists' Golfing Society's Dinner.

The annual dinner of the London Chemists' Golfing Society was held at Frascati's Restaurant, London, W., on March 24, Mr. T. Edward Lescher (President) in the chair. Judging from the breezy optimism discernible throughout the proceedings, chemists who golf feel sorry for chemists who do not, and probably regard them de haut en bas. Many were the references made to the game during the evening, and one speaker treated the gathering to quite a learned disquisition on its early days. To take the features of the dinner in their proper sequence, it should first be recorded that about 140 members and visitors (including a few ladies) assembled in the Alexandra Hall of Frascati's, and that Mr. Lescher was supported at the top table by Mr. W. L. Currie (President).

of the Pharmaceutical Society), Mr. H. R. Arnold (Burgoyne, Burbidges & Co., Ltd.), Mr. Herbert Skinner, Mr. A. R. Keith, Mr. T. W. Theakston (Prichard & Constance (Wholesale), Ltd.), Mr. C. H. J. Tanner, Mr. S. F. Body, and others. Presiding at the spur tables were Messrs. A. Barritt, A. Boyes, M. W. Carmichael, D. J. Parry, and W. B. Trick; and among the general company we noticed Mr. C. T. Allen, Mr. A. R. Arrowsmith (The Apollinaris Co., Ltd.), Mr. W. Boyack, Mr. A. Catto (President of the West Ham Association of Pharmacists), Mr. W. Potter, Mr. John Royle, and several representatives of London wholesale houses. The capital dinner was rendered more appetising, for those who were dinner was rendered more appetising, for those who were fortunate enough to sit near the President, by an imposing display of trophies presented to the elub for competition. The dinner and the loyal toast having been disposed of an instalment of a generous programme of music (to which. during the evening, the President of the Pharmaceutical Society contributed) ushered in the speeches. The first of these fell to Mr. Currie, who gave the toast of "The London Chemists' Colfing Society," and made it a peg on which to hang a eulogy of the game itself. Mr. Lescher, in reply, laid down as a guide for speakers the precept, "Stand up; speak up; shut up." The Society, he reminded the gathering, had been built up in not more than seven active years. He was pleased to find all their silver back on the table that evening. (Great laughter.) The eups and other prizes were next presented by the President as follows: Sanger Cup, H. W. Bartlett; Crown Perfumery Cup, G. F. Deeth; "British and Colonial Pharmacist" Cup, F. A. Bell; President's Prize, D. J. Parry; fill Cup, G. Beaton; Carmichael Prize, D. J. Parry; Hill Cup, G. Beaton; Carmichael Trophy, D. J. Parry; Hepburn Shield, H. W. Bartlett; foursomes prizes given by Messrs, Carmichael & Parry, G. Beaton and H. W. Bartlett; prizes for runners-up, H. Lumley and F. C. Jones; last year's replicas, J. Jones, F. Mitchell, and J. Jones. The teast of "The Pharmaceutical Society" was proposed by Mr. C. H. J. Tanner, who, greatly daring, touched on the famous by-law, and suggested that some of the anotherwise hesistants adsuggested that some of the apothecaries' assistants admitted under its provisions might find an outlet for their energies abroad. He had noticed, he added, that the standing of the chemist in this country was not on the level of that prevailing in some other countries. Mr. Herbert Skinner, in reply, whimsically confessed his doubts as to the choice of himself as the Society's apologist, in view of the fact that the President was with them. Wild horses, he continued, would not drag him into discussing the by-law. (Laughter.) The situation during the next year or two would need the best of service; service was the keynote in any building undertaken towards the restoration of our country. (Applause.) Mr. M. W. Carmichael (captain of the Society) proposed "The Drug Trade" in a characteristically droll speech, touching delightfully on golf, the Profiteering Act, and an old lady in a train—of whom, apparently, most of the company had never heard. Mr. H. R. Arnold, in a brief reply, said that the changes he had observed in the wholesale trade during fifty years were changes for the better, and announced that his company would be pleased to present a cup to the Society. The other toasts were: "The Ladies and Visitors," proposed by Mr. W. B. Trick and responded to by Mr. S. F. Body; "The Royal and Ancient Game," proposed by Mr. Alec Boyes; and "The President and Secretary," proposed by Mr. C. T. Allen and briefly acknowledged by Mr. Lescher and Mr. G. F. Deeth. Thanks to the President's masterly handling, the lengthy programme was got through well within the time allotted in restaurants and places where they dine.

TRINIDAD LIME-JUICE.—There was a small increase in the export of lime-juice from Trinidad, the shipments in 1918 amounting to 24,419 gallons. The cultivation of limes is being extended in both Trinidad and Tobago.

The smelling-salts bottle of the early Victorian lady has been ousted from its position by the aspirin tablet—"functional disturbances of the nervous system" being the up-to-date form of "vapcurs," suggests a contributor to a daily paper.

# Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

#### BOARD OF TRADE.

Sir Robert Horne has now taken over the duties of President of the Board of Trade.

#### INTERNATIONAL OPIUM CONVENTION.

Mr. Gilbert, on March 18 asked the Home Secretary when the Bill prepared to give effect to the pharmacy legislation necessitated by the International Opium Convention and the provisions of Article 295 of the Treaty of Peace will be introduced.

Mr. Shortt replied that he could not name an exact date, but he hoped it would be introduced very shortly.

#### WAR EMERGENCY LAWS (CONTINUANCE) BILL.

The Committee stage took place in the House of Lords on March 23. Exception was taken by Earl Russell to Regulation 10°B, which gives power to restrict hours in the evening during which business may be carried on. This regulation, he said, fills no useful purpose in peace time. He had in view also the fact that the power to restrict lighting of shop-fronts is not enforced. An amendment he proposed was, however, withdrawn.

#### DENTAL LEGISLATION.

Members of the House of Commons are receiving copies of a petition from the Incorporated Dental Society urging the necessity of legislation to amend the Dentists Act 1878 in the light of the recommendations of the Departmental Committee of the Privy Council. In the statement which accompanies the petition a point is made in regard to the advantages over other unregistered dental practitoners which dental chemists enjoy in being able to make up cocaine solution. Chemists who send in this statement should not fail to cross out in the suggested conditions (page 7) for admission to the register the condition "that such practice is his main professional occupation."

#### PRICES OF STAMPED MEDICINES.

On March 24, in the House of Commons, Mr. Ronald McNeill asked the Chancellor of the Exchequer if he is aware that the proprietors of patent medicines, owing to increased cost of production, have been compelled to raise the prices charged to retailers to an extent which leaves insufficient or no profit to the retailer after paying the stamp duty; and whether he will consider the question of providing a margin of profit by a rearrangement of the duties, so that articles not exceeding 1s. 9d., in value may pay a stamp duty of 3d., articles not exceeding 3s. 9d. a duty of 6d., and articles not exceeding 6s. a stamp duty of 1s., in lieu of the duties payable under the existing law.

The Chancellor of the Exchequer replied: I have received representations on this subject, which are being

considered.

# SHOPS (EARLY CLOSING) BILL.

The second reading of the Shops (Early Closing) Bill took place in the House of Commons on March 19. Mr. Briant, who moved the second reading, said that the regulation under which shops now close at 8 r.m. would automatically lapse in August, and that the men and women affected will be thrown back into "the old bad and almost monstrous hours of the past." He said that the only way to teach people to shop early—and, after all, it is only a habit—is to make the closing order applicable to all trades, so that the public will understand that on one particular night they cannot shop after a certain hour. This can never be done by piecemeal legislation or by Orders. The Bill will mean the emancipation of 1,750,000 people who serve in shops. Sir Kingsley Wood seconded. Sir Philip Magnus opposed the Bill as an interference with the liberty of the subject. The Government attitude was stated by the Home Secretary as entirely in favour of the principle of the Bill, and without pledging the Government as to details. It is really an amending Bill to the Shops Act 1912. There are, however, points that

require further consideration, such as the proposal to give to individuals exemption from closing, and also the question as to whether the Advisory Committees proposed to be set up under the Bill would work with the local authority. He had no doubt that the Bill will be improved during the Committee stage. After further discussion, the Bill was committed to a Standing Committee.

#### GERMAN POTASH.

Sir Richard Cooper, on March 24, asked the Parliamentary Secretary to the Ministry of Munitions if he will state what is the amount of the gross turnover of the contract for potash supplies entered into between the Government and Germany on which the British Potash Co., Ltd., was entitled to 1 per cent. profit; and what further profits have been received by, or are still due to, that company under the arrangement by which that company was to receive one-third of any further profit.

Mr. Bridgeman, who replied, said: The gross turnover of the contract for potash supplies entered into between the Government and Germany on which the British Potash Co., Ltd., is entitled to 1 per cent. profit is approximately 980,000l. No further profits have been received by that company, and at the present time it is not possible to state what further profits will be due to that company under the arrangement by which that company is to receive one-third of any further profit. In view of the extra expenses incurred at Rotterdam and Hamburg, consequent upon the strikes at those ports, the contract has been rendered less remunerative to the company.

Sir Richard Cooper also asked the cost per ton to the Government of the bags for and the bagging of the potash purchased from Germany; and what was the actual cost per ton of each class of German potash salts bagged, exship (i.e., c.i.f.), at the chief port in the United Kingdom.

Mr. Bridgeman replied: The average cose per ton to

Mr. Bridgeman replied: The average cost per ton to the Government of the bags was 18s. per ton; the cost of bagging is included in the price credited to Germany. The average cost per ton of each class of German potash salts (bagged) ex ship (i.e., c.i.f.) at the chief port in the United Kingdom has been: Muriate 80 per cent., 19t. 13s. 1d.; muriate 90 per cent. to 95 per cent., 21t. 8s. 8d.; sulphate 90 per cent., 22t. 3s. 11d.; manure salts, 50 per cent., 11t. 13s. 1d.—on 80 per cent. basis.

# NATIONAL HEALTH INSURANCE BILL.

The second reading of this Bill, the chief points of which were mentioned in The Chemist and Druggist, March 20, p. 53, was taken in the House of Commons on March 22. The Minister of Health (Dr. Addison) moved the second reading, in the course of which the following reference was made to the alterations in the medical benefit:

There are also some alterations as to medical benefit, and at the request of the societies, in order to make the finance clear, we have put into the Bill in Clause 7 the actual contribution from the Insurance funds towards the cost of medical benefit a sun of 9s. 6d. There was an item known as "the floating sixpence" which, as a matter of fact, never floated; but still, there it is, and we propose definitely to simplify the accounts; and in the same way we have arranged for a sum which in the aggregate amounts to 3C0,000l., which will be devoted, under appropriate supervision, to assisting the locomotion of practitioners in scattered rural districts. In this connection I must refer to the Medical Benefit Regulations which are coming interpretation now and which, I hope, will help to make good a number of deficiencies in the medical service. The medical men, with whom I have had many meetings, have recognised that in many respects, in certain places anyhow, the practice for insured persons has not been as satisfactory as it ought to be, and I hope that under the improved Medical Benefit Regulations, coupled with the assistance which the medical consultants must necessarily give, we shall steadily improve the quality of the service. The standard which I laid down, and which was accepted by the Central Medical Committee, was that the practitioner should give to the insured person as good, as complete, and as frequent attendance as he gives to an ordinary private patient. In connection with this there were considerable negotiations. I made an offer of 11s. to cover these various costs, and ultimately, in consequence of the difference

between us, this was referred to an independent board of arbitrators. I am happy to say that the arbitrators confirmed my figure, and their decision was the 11s. I had

proposed.

Some of the members who spoke afterwards referred to the unsatisfactory medical service, whilst Mr. Johnstone mentioned approvingly the successful scheme in force in Sootland for administering the Drug Fund. He said that under the Regulations laid down by the Scottish Insurance Commissioners to this end, the scheme has been most successful, and the cost has been kept within the two shillings provided. As a result of the operations of the Drug Bureau, many abuses have been checked and an improved quality of drugs given to the patients, and there is no reason why that should not be done elsewhere.

#### CRIMINAL LAW AMENDMENT (No. 2) BILL.

This Bill, introduced into the House of Lords, proposes, among other things, to repeal the Indecent Advertisements Act 1889, and Section 2 of the Venereal Disease Act 1917 (dealing with the advertising of vencreal remedies), and to substitute the following provision:

7.-(1) A person shall not-

(a) affix to or inscribe on any thing or place, or exhibit, so as to be visible from any place to which the public have or are permitted to have access, whether on payment or otherwise; or

(b) distribute or deliver; or

(a) post for transmission by post; or (d) publish by way of advertisement; or (e) have in his possession for any of the purposes afore-

any picture or printed or written matter which is of an indecent or obscene nature, or attempt to do any such acts

as aforesaid or cause or attempt to cause, or knowingly permit any such acts as aforesaid to be done.

(2) A person shall not by any advertisement or any public

notice or announcement-

(a) treat or offer to treat any person for any venereal disease or any disease or infirmity arising from or relating to sexual intercourse, or prescribe or offer to prescribe any remedy therefor, or offer to give any advice in connection with the treatment therefor; or

(b) offer to give or give any advice relating to the pro-

curing of miscarriage or abortion; or (c) suggest directly or indirectly that any premises are

or can be used for immoral purposes.

(3) A person shall not hold out or recommend to the public by any notice or advertisement, or by any written or printed papers or handbills, or by any label or words written or printed, affixed to or delivered with, any packet, lear bettle which or ether productions. box, bottle, phial, or other enclosure containing the same, any drug, appliance, substance or thing for the prevention, cure, or relief of any venereal disease or any disease or infirmity arising from or relating to sexual intercourse, or for the purpose of procuring miscarriage or abortion.

(4) Nothing in this section shall apply to any advertise-

ment, notification, announcement, recommendation, or holdment, notification, announcement, recommendation, or holding out made or published by any local or public authority or made or published with the sanction of the Minister of Health, or to any publication sent only to duly qualified medical practitioners or to wholesale or retail chemists for the purposes of their business; and a person charged with an offence under this section in respect of an advertisement, if he is not himself the advention, shall not be convicted. an offence under this section in respect of a devertisement if he is not himself the advertiser, shall not be convicted if he proves that he did not know, and had no reasonable ground for supposing, that the advertisement was of such a character as to make the publication thereof an offence.

(5) If any person acts in contravention of any of the provisions of this section, he shall be liable, on summary conviction, to a fine not exceeding one hundred pounds, or to imprisonment, with or without hard labour, for a

term not exceeding three months.

(6) Any person who is found acting in contravention of paragraphs (a) or (b) of sub-section (1) of this section may be taken into custody without warrant by any constable.

# ANTI-DUMPING BILL.

The text of the Bill to prevent dumping and to establish a Special Industries Council to advise as to the promotion and assistance of special industries, introduced into the House of Lords by Lord Balfour, was read a first time on March 17. In its anti-dumping clause the Bill provides that where the prices of goods imported into the United Kingdom are offered for sale in the United Kingdom at less than the prices at which goods of the same class or kind are sold in the country of origin, the Board of Trade

may by Order prohibit the importation of such goods. except under such conditions as the Board may order. Such goods shall be deemed to be goods prohibited to be imported under Section 42 of the Customs Consolidation Act, 1876. For the purpose of advising the Board of Trade as to the measures to be taken for the promotion and assistance of special industries, a Council, to be known as the Special Industries Council, is to be established. It will be the duty of the Council to watch the course of industrial development, and, in consultation with the Department of Scientific and Industrial Research and any other Government department interested in any special industry, to advise the Board of Trade as to the promotion and assistance of the special industries set out in the second schedule of the Act, or any other industry which, in the opinion of the Council, is a special industry. The special industries mentioned in the second schedule are synthetic dyes, synthetic drugs, spelter, tungsten, magnetos, optical and chemical glass, illuminating glassware, scientific and optical instruments, hosiery needles, and thorium nitrate. In introducing the Bill in the House of Lords, Lord Balfour of Burleigh said that the special tribunal should consist of business men, carefully chosen not only for business knowledge, but for broadminded consideration of public affairs. It might be necessary for there to be a whole-time tribunal, sitting like the Railway Commission. Since then, however, the Board of Trade had been reorganised, and there had been constituted a special Department whose primary functions were the duties he had mentioned. Continuing, his lordship said the more the synthetical chemical industry was developed the more hope there was of discovering new lines of progress. From the information given to the Committee it was doubtful whether we should be able to continue the production of these articles in the future if we had the unrestricted competition of old-established German firms, and, unless some assurance was forthcoming, manufacturers would hesitate to instal expensive plant. Earl Beauchamp criticised the Bill in regard to dumping, reminding the House that dumped goods were cheap goods, and cheap goods were what we wanted in this country to-day. Such legislation as was contemplated was going to raise the cost of living further. The Lord Chancellor replied for the Government, going over much familiar ground as to the necessity of protecting key industries. The special department which had been constituted at the Board of Trade was equipped with the best expert advisers available to the Government. Lord Balfour said he proposed to consider the next stage of the Bill after Easter. The Bill was then read a first time.

EXPLOSIVES MADE IN DYE-WORKS.—In a recent address, Mr. Joseph Turner (British Dyestuffs Corporation, Ltd.) gave an account of the services rendered to the military authorities by the Huddersfield dye-makers. The total quantity of high-explosives manufactured by Read Holliday & Sons and by their successors, British Dyes, Ltd., was: Pieric acid, 48,828,890 lb.; T.N.T., 11,000,000 lb.; dimethylaniline (for the production of compounds for detonators), 4,068,924 lb. The works was the only one The works was the only one manufacturing pieric acid when the war started, and still in existence and manufacturing that material when the war concluded. No fatal accident occurred at the works during the whole period.

ADDRESSING the Bradford Advertising Association on "Branded Goods" recently, Mr. Stuart Hirst, vice-chairman of the Incorporated Society of British Advertisers, said that it was estimated that 75 per cent. of the money spent on advertising branded articles was wasted because of some defect in the article, the market, or the method of attacking the market. Branded goods which were to-day a household word were only a fraction of the brands that came on to the market. A reasonable proportion of branded goods in a shop raised the tone of the shop, as being calculated to give the customer more confidence and satisfaction than a non-branded article in the same line. By selling good branded articles a trader paved the way for the development of his own business.

# Deaths.

BLAIR.—At Belfast, on March 15, Mr. David Charles Blair, assistant with his brother, Mr. T. G. Blair, R.D., 93 Agincourt Avenue.

GEE.—At 3 High Street, Wainfleet, on March 17, Mr. George Lawrence Gee, chemist and druggist, manager to the executors of the late Mr. R. B. Huggins. Mr. Gee qualified in 1902.

HARRISSON.—At Brook Hospital, Shooter's Hill, on March 20, of diphtheria, "Peggy." the only child of Mr. J. Harrisson (The Clayton Aniline Co., Ltd.), aged ten. Cremated at Norwood Cemetery on March 24.

PEARCE.—At a nursing home in Exeter, on March 19, the beloved wife of Mr. W. F. Pearee, pharmacist, 19 South Street.

TAYLOR.—At South Gosforth, Newcastle-on-Tyne, on March 22, Mary Hannah, widow of the late Mr. Arthur Bertie Taylor, chemist and druggist, proprietor of Taylor Gibsón & Co., chemists, Bigg Market, Newcastle.

Tomson.—At a nursing home, on March 12, Cecilia, wife of Stanley E. Tomson (Shapley & Tomson, Seven Kings, Ilford).

WRIGHT.—Recently, Mr. James Wright, assistant with his brother. Mr. Edward Wright, chemist and druggist, Hunstanton and Heacham. Mr. Wright leaves a widow, two sons, and two daughters.

WYNNE.—At his residence, The Lawn, Aberystwyth, on March 16, suddenly, Alderman Edward Price Wynne, J.P., chemist and druggist, aged seventy-seven. Alderman Wynne passed the Modified examination in 1870, and shortly afterwards opened in business in Pier Street, Aberystwyth. He was elected Mayor of the borough on three occasions. For thirty-three years he had been a churchwarden. He was one of the oldest members of the local lodge of Freemasons, and had been district treasurer of the Manchester Unity of Oddfellows for forty-one years. Alderman Wynne was appointed a magistrate in 1885. The business successfully carried on by him will be continued by his son, Mr. Edward W. Wynne, chemist and druggist.

ZIMMERMANN-BELL.—At Ferndale, Beekenham Grove, Shortlands, on March 20, Mr. Richard Augustus Joseph Zimmermann-Bell, of the Leto Photo Materials Co., Ltd., and governing director of A. & M. Zimmermann, Ltd., 3 Llóyd's Avenue, London, E.C. 3, aged forty-one.

# Personalities.

MR. J. W. STEWARD, Ph.C., Bridgmorth, has been elected a member of the higher education committee for the borough.

Mr. J. W. W. Openshaw, chemist and druggist (Booth & Openshaw, Ltd., chemists, Darwen Street, Blackburn), has joined the directorate of a newly formed cotton company.

MR. PERCY J. ASHFIELD, chemist and druggist, Rhyl, superintended the production by the Rhyl Dramatic Society, on March 18, of "The Bear Leaders," and sustained one of the principal rôles.

MR. THOMAS COOPER, chemist and druggist, Halesowen, who has been a cinema proprietor for some years past, is erecting a new and commodious hall at Blackheath, Birmingham.

Mr. H. Fildes, one of the candidates for Stockport at the forthcoming Parliamentary election, has a personal connection with the drug-trade. His wife is a daughter of Mr. A. P. Garland, Ph.C., who was formerly in business in King William Street.

Dr. Henry T. Maw (S. Maw, Son & Sons, Ltd., 7-12 Aldersgate Street, London, E.C. 1) has been appointed a member of the employers' panel in connection with the Boards of Arbitration constituted by the Minister of Labour under the Industrial Courts Act, 1919.

Mr. W. H. Grimshaw, chemist and druggist, Blackburn, was skip of the Blackburn Curling Rink when it won

the Meggat memorial bowl at Manchester on March 18 in an all-England contest. The members of the rink were presented with gold medals in recognition of the event.

Mr. Thomas K. Huches, Ph.C., late of Burroughs Welleome & Co., South Africa, is joining Mr. C. Gordon Davies, Ph.C., of Johannesburg, in the business of indenting agents (import and export). Communications from those who are anticipating expansion of business or needing a representative in South Africa can be sent to Mallagh & Co., 19 St. Dunstan's Hill, London, E.C.

At the investiture at Buckingham Palace on March 20, Major A. Frankland Hollingworth, R.F.A., son of Mr. F. W. Hollingworth, Ph.C. (Boots, Ltd., Bond Street, Lecds), was decorated with the Military Cross and bar. Major Hollingworth holds the Croix de Guerre (avcc palme), and has been mentioned in despatches four times. Captain H. Duncan Cumming, son of Mr. J. Cumming, ehemist and druggist, Crewe, was similarly decorated on March 17.

Mr. J. Harrison Dakin (Dakin Brothers, Ltd., 82 Middlesex Street, London, E. 1) was, on the oecasion of his seventieth birthday, the recipient of a silver rose-bowl from eleven members of his staff of twenty years' service and upwards, the longest period of service being forty-nine years. At a dinner which followed, Mr. Dakin expressed his appreciation of the kind feeling which had prompted such a gift, and said that, after upwards of fifty years' varied work in the drug-trade, he regarded it as one of his proudest and most valued experiences that he should have received another expression of the regard of the old members of the staff, which in his turn he most heartily reciprocated.

# Poisonings.

The following cases of fatal poisoning have been recorded since our last report:

At Great Yarmouth, a Miss Wales died from taking carbolic acid while mentally depressed.

In South-East London, an artificial-flower maker named Terry committed suicide by drinking a solution of ammonia, and his wife similarly ended her life with acetic acid.

At Carrington Street, London, W. 1, Maud Turner (23), a nurse, committed suicide by taking lysol while of unsound mind. Evidence as to the cause of death was given by Dr. W. H. Willcox at the inquest, held on March 23.

At Gravesend, March 18, an inquest was held on the body of John Eves, gardener, who had committed suicide by taking phosphorus paste. The evidence showed that a jar of the paste had been obtained by the deceased from the shop of Mr. A. A. Gillitt, Ph.C., Milton Road, ostensibly for killing mice. An "Unsound Mind" verdict was returned

At Puriey, Croydon, on March 23, an inquest was held on the body of Captain Albert V. Blenkiron, M.C., who was found dead in bed in a Coulsdon Hotel. Dr. E. R. Kellet stated in evidence that death was due to poisoning by cyanide of potassium; a box eontaining coeaine had been found in his possession, but cocaine was not the eause of death. A verdict of "Suicide during temporary insanity" was recorded.

An inquest was held at West Bromwich, on March 17, on the body of a labourer named Taylor, who, the evidence showed, had committed suicide by taking spirit of salt while of unsound mind. The spirit of salt had been purehased at a pharmaey on the pretext of a soldering job. A police officer said he had seen the chemist who had sold the poison, and he found that the sale had not been entered in the poison book. Spirit of salt was regularly sold by chemists, but it was, he said, important that all sales of poison should be entered, so that, if necessary, they could subsequently be traced. It would have made no difference in this case, as the poison was placed in a bottle with the chemist's name on it, but in some eases it was difficult to trace the sale unless proper entries were made.

# Trade Notes.

TELEPHONE NUMBER.—John Lorimer, 10 City Road, London, E.C. 1, has been allotted a new telephone number, 'Clerkenwell 2215.'

SPEROL.—A GLADYS COOPER showcard to advertise Sperol hair food is offered by the Richmond Pure Drug Co., Richmond, Surrey.

SUPEROL, or ortho-oxychinoline sulphate, is made by the Vereenigde Chemische Frabrieken, Amsterdam, whose agent in this country is Mr. K. Rayment, 2 Broad Street Place, London, E.C. 2.

DUTCH DROPS.—The British agent for the original Dutch Drops is Mr. C. Telkamp, 81 Guilford Street, Russell Square, London, W.C., who offers to send best trade terms and sample bottle on application.

Zol Emulsion.—On and after May 1 the small size Zol Emulsion will be discontinued, and the large size will retail at 3s, instead of 2s. 6d. The retail price is protected under the scheme of the Proprietary Articles Trade Association.

CACHETS.—The advantage of cachets over wrapped powders for the administration of headache powders is graphically shown in the advertisement of Mr. Cicero S. Clark, 12 Richmond Road, Bayswater, London, W. 2. Mr. Clark specialises in cachets.

Keating's Powder.—Thomas Keating, 50.58 Union Street, London, S.E., announces in our advertisement columns that the  $1\frac{1}{2}d$ ., 3d., 2s. 6d., and 4s. 6d. sizes of Keating's powder will be withdrawn so soon as the present stock is exhausted. The new sizes are 2d., 6d., and 1s. in cartons, and 4s. in tins.

Gallio Remedies .- There is a series of Gallio remedies, obtainable from the chief wholesale houses (a list is given in an advertisement in this issue), comprising an emulsion, for coughs, colds, etc.; ointment, for eczema and skin affections; pills, for constipation; and the Oil of Gallio, a lubricant for chest diseases.

New Lines.—Fassett & Johnson, Ltd., 86 Clerkenwell Road, London, E.C. 1, in their advertisement in this issue deal with Mulsified Cocoanut Oil shampoo, a new line, selling retail at 28.6d., and Mennen shaving cream, which sells at 18.9d. per tube. The price of both articles is protected under the Proprietary Articles Trade Association's scheme.

SOLID LAVENDER.—We had a call the other day from Mr. R. Demuth, 68 Salusbury Road, London, N.W., who, having recovered from his recent serious illness, is now perfecting a Sol'd English Lavender which is a worthy companion to Frozoclone. The Solid Lavender will be put on the market in a few weeks, and the containers are in dark-blue glass with nickel screw stoppers.

SEMREH BOTTLE-CAPS.—The Viscose Development Co., Ltd., Pembroke Road, Bromley, have completed the change from war-work to peace conditions, and are now in a position to supply all demands promptly at reduced prices. During the war the company were occupied with Government work, which restricted the output of Semreh bottle-caps.

QUENCHOLEEN LEMONADE.—This speciality of the Violiv Manufacturing Co., 26 Haymarket Terrace, Edinburgh, is advertised in this issue as a seasonable article for sale by chemists. The cartons contain thirteen packets, of two powders, and sell at 1s. 6d. A pleasant effervescing beverage is obtained when two of the powders are dissolved in a tumbler two-thirds filled with water.

THE CHEMISTS' EXHIBITION.—This exhibition, organised by the "British and Colonial Pharmacist," is to be held at the Northampton Polytechnic Institute, St. John Street, Clerkenwell, London, E.C., from April 12 to 16. Subscribers to the "British and Colonial Pharmacist" who visit the exhibition are entitled to a rebate on the cost of their railway fare to London. Particulars are given in an advertisement in this issue.

THE SWISS TRADE EXHIBITION is to be held at Basle from April 15 to 29. One of the sections is devoted to chemistry and pharmacy, and as the exhibition is designed to promote the sale of Swiss products, it is a good opportunity for visitors to inspect the kind of goods made in Switzerland. Information regarding the exhibition can be had from the Swiss Legation (Commercial Department), 32 Queen Anne Street, London, W. 1, or the Swiss Bank Corporation, 43 Lothbury, London, E.C. 2.

THE LONDON FAIR AND MARKET, which opened at the Royal Agricultural Hall, Islington, N., on March 16, and closes on March 26, supplements to some extent the purpose of the recent British Industries Fair by being open to manufacturers in allied and neutral countries. The majority of the exhibitors, however, are British. Among these are Sorbo Rubber Sponge Products, Ltd., who are showing their sponges, sheeting, etc.; Napper & Davenport, with a full range of aluminium containers; Siemens. Bros. & Co., Ltd.; The British Ever-Ready Co., Ltd.; and Arthur Berton, Ltd.

ESSENTIAL OILS.—The firm Salvatore di Domenico Rognetta, producers of essential oils of bergamot, lemon, and orange, of Reggio Calabria, has issued a handsome booklet to commemorate the completion of the first century of its existence. It owes its foundation to Salvatore Rognetta, the grandfather of the present owner, who in 1820 erected the first plant for a rational production of oil of bergamot, and in addition to materially advancing the prosperity of Reggio Calabria by this enterprise, proved himself a leading citizen, actively engaged in furthering the interests of his fellow-men, and also a zealous patriot, who suffered imprisonment for promoting the realisation of Italian unity. It is interesting to note that the lemon was cultivated in Calabria and in Sicily as far back as 1002. The essential oil is obtained by purely mechanical means, either by pressing the skin of the fruit against a sponge, which absorbs the oil released from the numerous small reservoirs in the skin, or by means of a specially constructed machine, invented already in the eighteenth century, in which the fruit is compressed and the expressed oil is collected in a receptacle within the machine. The following figures, giving the annual production of the various essential oils obtained in this district, will illustrate the importance of this industry: Oil of bergamot, 150,000 kg.; oil of orange, 30,000 kg.; oil of lemon, 500,000 kg.; oil of bigarade, 7,000 kg.; in addition to notable quantities of oil of neroli, petitgrain, mandarin, etc. The London agents are Thomassct & Co., Clarence House, Arthur Street, E.C. 4.

# Information Department.

### INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated. ppliers of the undermentioned articles will be appreciated.

"Acrotherm" vacuum flask
Winter's corn remover (in paste form)
"Ranko" insect powder
"Bols" wines, etc.
Sinclair's papain
A/243. "Neuropathic Drops"
(E. B. & C. Williams)

B/203. "Eclador" pink varinish for the nails
"Antipyon"
F/193. Freeman's ess, senna
W/243. Curtis' Perfumes.
W/245. "Fleurs de France,"
(one drop perfume)
makers. M/183. F/233. Winter's corn remover E/243. (in paste form) E/243. (Ranko'' insect pow-E/243. "Bols" wines, etc. S/243. Sincluir's papain M/243. Aptona tablets M/243. "Lectoral" "Bloss" "Bl

#### INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, Trace Chemist and Druggist, 42 Cannon Street. London, E.O.4:

Acetanilid. 205/27
Acetyl salicylic acid, 205/270
Byard's citriodora oil, 196/6
Caffeine, 205/274
Dial-Ciba preparations, 203/61
"Freežome," 204/61
Glebe sugar, 180/22
Hot-water bottle covers, 174/17
"Ideal" suspensory bandage, 181/57
Thymotussin, 133/73 Dial-Ciba preparations, 203/61— "Freezome," 204/61 Glebe sugar, 180/22 Hot-water bottle covers, 174/17 "Ideal" suspensory bandage, 181/57

" Blaco

Liquozone, 204/5 Lymphol, 181/7 Mackay's auraline, 199/55

107/253
Thymotussin, 133/73
"Vitro" ink, 132/4
Wainwright's cure for seasic&ness, 166/72

# Observations and Reflections.

By Xrayser II.

### Liverpool, Sheffield, and Leeds

were last week all discussing the shortcomings of the Society. The first two agreed that a new association is necessary to the protection of the interests the Society has failed to protect, while at Leeds, where Mr. Sargeant's influence is so strong, the opinion was freely expressed that the Society must be recon-stituted. In the same week the leaders of the Council and their friends were regaling one another with butter and honey in the Square, apparently oblivious of the fact that they are on trial, and evidently very well pleased with themselves. Two months hence they will, let us hope, have a rude awakening. I do not as yet know who have been nominated as new candidates, but we may certainly expect such a challenge to the old gang as ought to disturb their self-complaisance. The chief danger lies in the very fact of the general edium they have incurred on so many different grounds, and the wide front which, in consequence, they present to attack. Unless care is taken to concentrate our forces and agree upon the point of assault, they may evade the punishment they have earned; our grievances are so various that only those which touch the majority of us most nearly should be emphasised, for fear that the airing of pet grievances by any section of the constituency may distract attention from those with regard to which we are most united. Undoubtedly the chief of these is the betrayal of last autumn and the spirit of insolent indifference to our wishes of which it is the symptom. To free the Council, and therefore the Society, from the domination of the clique, that should be our great motive; and indeed we want no other.

# Your Contributor "Carruthers"

will carry your readers with him in his criticisms of Mr. Russeli's book on "Commercial Advertising," but there are one or two remarks in his paper which are themselves open to criticism. He says, for instance, that the ignoring of the distributor by the advertiser "invariably results in failure." It ought to do, and would do if the distributors as a class had any proper self-respect; but does it, as a matter of fact? A good many proprietors who advertise freely ignore the distributor to all intents and purposes, and yet seem to do pretty well, though certainly not as well as they might do if a little more regardful of our interests; and, so long as we allow ourselves to be ignored, absolute failure will not, I fancy, invariably result, though I heartily wish it were otherwise. Another point on which I venture to differ from "Carruthers" is his implied assertion that advertising is an exact science. Strictly speaking, it is not a science at all, but an art; and this is not merely an academic objection. Advertising, to be thoroughly successful, requires not only wide knowledge, but that personal touch which is of the essence of art, that creative power which gives life to the abstractions of science, and without which the best-conceived advertisement will, to the man in the street, be a tale of but little meaning.

# On St. Patrick's Day

Queen Alexandra, as her yearly custom is, distributed shamrock leaves among the Irish troops at Chelsea Barracks, but it is at least doubtful whether the plant chosen on these occasions is the shamrock of the saint, or, indeed, whether he knew any plant at all by that name. The identity of the "true shamrock" has been disputed ad nauscam, and I do not propose to renew the discussion, but it is virtually certain that wood-sorrel was at one time an article of diet among the Irish under the name of "shamrock," and since this plant has considerable interest in medicine, a few remarks upon it are not out of place here. It had several popular names, Alleluia being one of them, the herbalist Turner says because it appears about Easter: Withering more probably connects it with the Italian Juliola, whence its official name Luzula

or Lujula, the latter being the form adopted in our Pharmacopæia. Gerard, of course, inclines to the more pious derivation, and even suggests that the name of cuckoo's sorrel is due to the fact that the cuckoo sings at the time when "Alleluia" is most sung in churches! The conserve of wood sorrel (Conserva Lujula) kept its place in the P.L. until 1809, when it was omitted, although the herb was retained until 1851. It was prescribed as refrigerant and anti-scorbutic; the salt of sorrel was the chief source of oxalic acid, or, as Nicholson, who gives the process by which it was obtained, calls it, acid of sorrel.

# My Note on Tooth-brushes

has brought me a query as to the origin and history of other toilet brushes, concerning which I have no very definite information. The hairbrush is conspicuous by its absence in all the classical works I have been able to consult, though that, of course, proves nothing. Latin dictionaries, Smith's "Antiquities," and other works of reference I have consulted are equally silent on the subject; nor are there, apparently, any specimens of such an article in the Roman antiquities section of the British Museum, the only small brush there being, in the opinion of experts, not a hair-brush. Still, it is difficult to believe that the elaborate coiffures of the ancients were built up without the aid of a brush of some sort, especially since we know that the Romans had clothes-brushes. English literature yields as little information down to 1599, the date of the earliest quotation for "hair-brush" in the Oxford Dictionary, but again one must think our forefathers knew the thing before then. Nail- and shaving-brushes do not appear till before then. Nan- and snaving-brushes do not appear to long afterwards. It is very different with combs, which have been found in ancient cave dwellings, and were in common use everywhere and always. "Fair Ligea's common use everywhere and always. "Fair Ligea's golden comb" is almost proverbial. The Spartans, like our Celtic and Saxon forefathers, combed their long hair ceremonially before going into battle, and Pope's Belinda, though nothing is said of her brushes, had combs of all sorts, "both the speckled and the white." Pectere pugnis sorts, "both the speckled and the wine. I combing was a Latin bit of slang equivalent to our "combing

#### Gum Elemi

has never been much used, except in Linimentum Arcæi (or Ung. è Gummi Elemi) and Emp. Elemi, both due to the influence of Arcæus, a Span'sh doctor practising in Holland in the sixteenth century. He called his preparation a balsam, and prescribed it, particularly for wounds in the head, as much superior to Basilicon ointment. It occurred, however, in a few other plasters. Quincy complains of the trouble caused in making the ointment by the dross in the resin, and considering the uncertainty of its source it was not lkely to be very certain in its quality. The ointment kept its place in our Pharmacopæia until 1898. Formerly it was supposed to be derived from a species of olive (though some said of the lemon-tree), and Lemery connects the name elemi with olivier. The name does not occur until 1450 or thereabouts, and attempts to identify the resin with the Enhæmon of the Greeks are not convincing.

# Cold Cream,

in its present form, seems, says Mr. J. B. Moore, of Ph'ladelphia, in the interesting note reproduced in your last week's "Retrospect," to have originated in the U.S. Pharmacopæia of 1831. This point is worthy of further elucidation. We are probably right, as Mr. Moore agrees, in tracing the preparation back to the Unguentum refrigerans of Galen, but Galen's ointment, of course, contained no spermaceti, and his formula was practically that given in Rennie as late as 1837, except that he prescribed olive instead of almond oil. Rennie makes a bad mistake in calling this "Ceratum album," which indeed contained spermaceti (the first official instance of its use in an ointment, I believe), and which dates from the P.L. of 1721. It may have been intended to supersede Galen's ointment, which was omitted from this Pharmacopæia, but it was a very different thing, containing white lead, camphor, and no water.

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# The Price of Stamped Medicines.

THE difficulties which the limits imposed by the medicinestamp duty have caused in the adjustment of wholesale and retail prices of proprietary medicines are very serious, and have prevented many manufacturers from following their inclinations to give a greater profit to those who sell their products. The various means of overcoming the difficulties thus occasioned have been the subject of discussion The "Face Values" campaign which for some years. staited in The Chemist and Druggist in 1917 was useful in helping manufacturers to readjust their prices, as it showed them that, if the retail prices of their products were fixed at the face value instead of at a lower minimum, there was room for some adjustment of profits. This method has been followed in numerous instances, so that now it is rare to find a proprietary article priced below its face value. As is well known, the profits for the wholesaler and retailer, agreed upon as being the minimum, are  $12\frac{1}{2}$  and 25 per cent, respectively. When the value of the stamps (upon which, as capital, the manufacturer should also obtain a profit) and other costs are deducted it will be seen that the margin of profit to the manufacturer must have been rapidly diminishing within the past few years. As chemists we know that the cost of materials, bottles, printing, labour, and overhead charges have very much increased over what they were before the war. Some proprietary medicines, such as powders and pills, are not so much affected by some of these rising costs as those requiring more expensive containers and much handling. The suggestion was made in The Chemist and Druggist that the Board of Customs and Excise should be approached with a view of obtaining an alteration of the value of proprietary medicines covered by the different stamps. The Proprietary Articles Trade Association, however, vetoed this suggestion, as it was feared that the Board would be tempted at the same time to introduce amendments which might abolish some of the old-standing exemptions enjoyed by chemists. The Proprietary Articles Trade Association have now apparently been convinced by the manufacturers that this method would help considerably in obtaining a margin for the rearrangement of profits. The Local Associations Executive Committee, in conjunction with the Proprietary Articles Trade Association, is consequently urging chemists to communicate with members of Parliament asking their support for proposals for the revision of the medicine-stamp duty. It is hoped that the Chancellor of the Exchequer may be induced to raise the value of medicines covered by stamps. For example, that a 3d. stamp can be used for a medicine of the value of 1s. 3d., a 6d. stamp for one valued at 3s. 9d., and 1s, stamp for the 6s. size. Meanwhile we observe that some manufacturers, especially where liquid medicines are concerned, are taking the bold step of discontinuing the size covered by the 3d. stamp. The proprietors of Seigel's syrup, for example, have decided that in future their speciality shall be packed in the 3s. size only. It is not difficult to trace the reason for this decision, and obviously a better margin for profit adjustments is afforded by this arrangement. The cost of labour-a considerable item—is probably not much greater in preparing the various sizes, whilst the price of the larger containers is not double that of the smaller size. It is so with the other items of expenditure, although perhaps it may cost more to sell the larger size. Against this, however, has to be considered the fact that the public has now definitely decided that pre-war prices will never return. Adjustment has already been made in the wages of the workingclasses, and it is probable that all salaried employés will receive similar consideration. It seems, therefore, that with the new value of money in mind the public cannot reasonably object to spend 3s. for an article instead of 1s. 3d., especially as there is generally considerable advantage in quantity. With the abolition in some cases of the

small sizes and the readjustment of stamp values there should soon be no reason for inadequate profits allowed by the manufacturer to the wholesaler and retailer.

# Easier Outlook in Linseed Oil.

THE last few weeks have seen a distinct relaxation of the phenomenal stringency which has characterised market conditions in linseed oil, especially since the close of last year. The renewed advance, which took place since mid-February, when the price of spot delivery in London reached its culminating point at 129l. per ton, was most pronounced, but it then began to tell on the attitude of consumers, who have now certainly every reason for confining their purchases to small lots for urgent needs only. The market is now at about 121l. for spot delivery here, while the Hull price stands at a discount of roughly &l. per ton, with the demand at the latter centre particularly subdued. It is perhaps not safe to look for any very rapid further fall, pending developments in the market for raw material, although the tendency of the latter has already undergone a pretty decided change towards a less onerous level. Curiously enough, the downward reaction in linseed oil was initiated by the shrewd policy adopted by home crushers in forestalling a similar development in linseed on the prospect of much freer competition from the River Plate and India in consequence of the welcome large yield of this season's crop in both countries. Old-crop seed on the spot is still held for rather fancy figures, but the prices at which new business has been done just lately in Argentine and Indian seed to arrive, already disclose a notable decline, while the discount on forward positions is quite likely to widen further. Crushers, at any rate, are more cautious in providing for their requirements over the spring, as the much greater weight of supplies from the two main sources combined may possibly at no distant date speed up the adjustment of prices. Much depends. on the progress of the demand for the oil-product, the extent of which is most difficult to gauge on a falling market, despite the fact that the world's requirements this season should be very heavy owing to the virtual exhaustion of old stocks. There is another factor which may encourage spasmodic buying of seed yet a while, apart from the crucial question of price at an inflated level, and that is the approach of the warmer weather under which the market for most seed-products usually experiences some contraction. The market for cake is now rather held up by quite an accumulation of supplies, while prices have declined considerably of late. It is hardly likely that the trade demand for linseed oil will revive very largely until the market reaches a more safe level, but consumers are entirely in the dark as to what this level should be. If the demand in America becomes less insistent over this season, the demand for seed from that quarter may slow down somewhat, and throw more competition on to the British and Continental markets and thus impart greater ease to the oil-product. The current season should see a very marked scaling down of prices, especially if the prospect of easier freightage conditions is realised. The normal price of linseed oil in pre-war times, based on fair average crops in India and the Argentina, was around 20%. per ton, while the price fell many years previous to the war to as low as about 14l. per ton. It is, of course, useless to make any comparisons with pre-war years from a market viewpoint in these most abnormal times, but allowance must nevertheless,

be made for the fact that this season's crop should go a long way towards bringing substantial relief to the manufacturing industries which are chiefly dependent for their rehabilitation on linseed and its by-products. Our total imports of linseed for the last two months amounted to nearly 50,000 tons, the larger portion of which emanated from the River Plate It is a great pity that the movement of the latter crop is so much belated this season, as earlier marketing would have helped things to ease more speedily than can be expected for a while. Extravagant forecasts were made recently as to the quantities likely to be drawn direct from that quarter by the United States. This absorption was estimated tentatively at as much as three-fourths of the total Argentine crop exportable surplus, which, if only approximately correct, would leave this country largely dependent on the Indian crop, which it is to be hoped will turn out fully up to the recent optimistic forecast. Dealings within the last week or two in Indian linseed have been proceeding on a fair scale, while shippers have moderated their views considerably. Purchases have been arranged at a little below 50% per ton for spring shipment, and terms for Argentine seed have naturally also been reduced to about 451. per ton. While the supply of tounage in the River Plate was recently particularly devoted to the transport of wheat and maize at the expense of linseed, the near future should see an improvement in the clearances of the latter product. The quality of the crop is understood to be very satisfactory. There was recently some talk of attempts being made to secure shipments from Russia, but this would seem, to say the least, premature.

# The Aspirin Report.

WE publish elsewhere in this issue the full report of the Sub-Committee on Drug Prices of the Standing Committee for the Investigation of Prices appointed by the Board of Trade under the Profiteering Act. The Sub-Committee, which was charged with the duty of investigating the cost, prices, and profits at all stages of drugs and medicinal tablets, started its investigations with aspirin tablets and incidentally covered the question of rates of profits fixed by the Proprietary Articles Trade Association. The report is interesting reading, but does not, we think, contain any fact that was not well known in the drug trade before the Profiteering Act became law. At a cost, therefore, of several thousand pounds the Sub-Committee has obtained information about the cost and selling-price of aspirin tablets which a couple of business men with a knowledge of the drug trade could have given within an hour. Not only has the taxpayers' money been wasted, but one effect of the report will be probably that the retail price to the public of unbranded aspirin tablets will be raised. The London Chemists' Price List, for example, gives the retail price of bottles of 25 five-grain tablets as 9d., and the Sub-Committee's view is that 10d., "if properly apportioned between the various interests, gives a reasonable profit to (a) the manufacturer, (b) the wholesaler, and (c) the retailer." The cost to the manufacturer varies according to the price of the raw material and to the scale upon which the manufacture is carried on, but it is also governed by the competition of other makers. The variation in the first-hand cost of acetylsalicylic acid has been shown in The Chemist and Drug-GIST DIARY for the past three years. It varied from 2s. per lb. before the war to 50s. in 1915, and is now 68. 3d. The very high price mentioned was in the famine period, before British makers had had time to organise the manufacture of aspirin, while during the war the more moderate price was kept up by the difficulty in obtaining raw materials required by the Government for munition purposes. The present price is a very reasonable equivalent of the pre-war price considering the cost of materials, plant, and labour. In regard to unbranded aspirin tablets, it may be recalled that before the Profiteering Act was thought of British makers were selling bottles of 50 at 5s. 6d. per dozen, while a further reduction has since been made. It did not require an expensive Committee to find out these facts; they have all been stated many times in The Chemist and Druggist, and are accessible to anyone interested. As a matter of fact, considering the relation between pre-war and post-war prices of drugs, bottles, and labour, the present charges for aspirin tablets are, in our opinion, too low were it not that the policy has been to keep out foreign competition by a rock-bottom price. The Sub-Committee, without, however, mentioning it in the "conclusions," further state in the report that it would be well if at the first opportunity the name "aspirin" were included in the British Pharmacopæia as a synonym for acetylsalicylic acid. It is over five years since we made the same suggestion, at the time when the aspirin trade-mark was removed from the Register of Trade Marks, so that there is not much novelty here. The fact that some makers who specialise in aspirin tablets and spend money in popularising their brands can obtain higher prices does not appear to find favour with the Committee, and as there is also a pious reference to self-drugging with aspirin tablets it is probable that these views are due to the medical members of the Sub-Committee. The unnecessary expenditure of money which has been caused by the production of this report is another reason for the speedy removal of the Profiteering Act from the Statute Book.

# Protection of Special Industries.

In our Parliamentary news we give full particulars of Lord Balfour of Burleigh's Bill, introduced and read a first time in the House of Lords on March 17, to give effect to the recommendations dealing with dumping and the safeguarding of so-called key industries that are contained in the report of the Committee on commercial and industrial policy after the war. The definition of dumping is, "the sale of imported goods in the country to which they are imported at a price below that at which similar goods are sold for consumption in the country of origin," which is practically the same definition as that in the now abandoned Imports and Exports Regulation Bill. In the new Bill a "Special Industries Council" is to be set up, whereas under the old Bill it was to be a "Trade Regulation Committee." The latter body was to consist of Government officials and ten members of Parliament, but the proposed new council is to consist of "persons of commercial and industrial experience," appointed by the President of the Board of Trade, and they are to act in consultation with the Department of Scientific and Industrial Research and any other Government department interested in any special industry. Although the schedule of special industries is apparently considerably shortened, it is a vague and indefinite list, inasmuch as the term "synthetic drugs" is still retained. Synthetic perfumes and flavourings, synthetic photographic chemicals, and a number of organic chemicals which were enumerated in the abandoned Bill, do not now appear; neither do analytical reagents, zinc oxide, lithopone, potassium compounds, and laboratory porcelain appear as "special industries." This expression in the Bill means "industries supplying commodities which are essential to the national safety as being absolutely indispensable to important industries carried on in the United Kingdom, and which are entirely or mainly supplied from countries outside the United Kingdom." The Bill is not likely to excite such keen controversy as its predecessor, as no mention is made of fiscal policy, but it looks as if the Board of Trade is going to have more uncontrolled authority than ever, and it will be necessary to see that the best expert advisers are placed on the Special Industries Council. The Lord Chancellor has blessed the Bill and we shall hear more about it after Easter, when there will be some organised opposition on the second reading.

# Licensing Bills and Pharmacists.

Colonel Gretton's Licensing Bill, which has been introduced into the House of Commons with, it is understood, the assent of the main body of the licensed trade of England and Wales, has just been printed. The main change which it makes in the law is not substantive, but administrative. This does not imply that the change is not of very serious moment. The Bill proposes to take the function of granting licences out of the hands of the Licensing Justices, with whom it already resides, and transfer it to paid Licensing Judges who should be trained lawyers appointed by the Lord Chancellor, and having a status similar to that of our County Court Judges. One Judge is to sit for each licensing area, which is defined in the schedule of the Bill and contains approximately 10,000 licensed houses. It is provided that any Licensing Judge may request the local authority of a district, the county or borough council, to appoint an advisory committee to assist him in deciding any question as to either (a) the general need for the reduction or increase or redistribution of licences in the locality; or (b) the hours of sale which should be sanctioned, subject to certain maximum hours fixed by the Bill. Apart from this, the discretion of the Licensing Judge as to the grant or renewal of a licence is unfettered subject to a right of appeal to a licensing appeal court set up by the Bill. It would be impossible to deny that there is a great deal to be said for the introduction of a principle which would entrust to trained lawyers the task of interpreting a portion of our law which is so complicated as that which relates to licences. But what chiefly concerns pharmacists is that the Bill leaves untouched the present law, which does not interfere with the sale of medicated or methylated spirits, or spirits made up in medicine and sold by medical practitioners or chemists and druggists. In striking contrast to this are the provisions of the Liquor Traffic Local Vcto Bill introduced last session by Mr. Raffan, and which we understand is again to be pressed forward by the teetotal wing of the Labour Party. This merely exempts from the operation of the licensing law (a) the sale of intoxicating liquor solely for medicinal purposes by a chemist or druggist, provided such sale be for consumption off the premises and in pursuance of a medical prescription signed and dated by a duly qualified medical man, and that a record of such sales open to the inspection of any constable shall be kept, together with the filed prescription in a form to be determined by the Minister of Health, or (b) the sale by a chemist or druggist of wine exclusively for sacramental purposes to a clergyman or minister on his certificate that the wine is required for sacramental purposes. As we have said, Parliament did not accept this measure; and the idea of placing such a body of men as the registered pharmaceutical chemists and druggists of the kingdom under permanent police supervision may scem a sorry kind of joke. But it would be wiser to take the proposal seriously, and pharmacists should be on the alert to see that their legitimate interests are not sacrificed to the inconsiderate zeal of any type of licensing reformer.

# Suppositoria Belladonnæ, B.P.

The official method for suppositoria belladonnæ is as follows:

Liquid extract of belladonna, 1.7 c.c.; oil of theobroma, q.s. for twelve suppositories, each weighing about 1 gramme. Evaporate the liquid extract of belladonna to a syrupy consistence; mix with the oil of theobroma, previously melted; as the mixture begins to thicken pour it into suitable moulds; let the mixture cool and divide it into twelve equal parts, and press each into a conical or other convenient form for a suppository.

One wonders whether the designer of the formula had ever tried it, for with such commercial samples of liquid extract of belladonna as are supplied to the retailer, the official directions appear to be impracticable—"Evaporate to a syrupy consistence." When this is done there are two physically different substances produced, one which adheres with some persistence to the bottom of the evaporating dish, and the other a more mobile liquid, probably aqueous; to incorporate these into a homogeneous mass seems to defy one, and to blend them with the previously melted oil of theobroma-an almost impossible task. As the medicament is a dangerous remedy, it is desirable that each portion of the divided mass should receive its proper amount of the potent portion, and therefore some other means should be sought to ensure this and in a reasonable time. Many experiments have been made, including a favourite method adopted by some pharmacists—namely, that of incorporating the "syrupy" evaporate with the cocoa butter by the usual pill-mass process; but when the time for transfer from mortar to dish arrives, and the melting process begins, much stirring does not prevent the sticky mass from again separating and clinging to the bottom of the evaporating-dish. All this can be easily obviated by a simple expedient—do not evaporate at all, but incorporate the 1.7 c.c. of the liquid extract in the cocoa butter by trituration in a small mortar with smooth interior, and then transfer to the evaporating-dish; melt, stir and pour into the moulds. The suppositories are produced quickly and are highly satisfactory in appearance. Apparently they do not suffer from the presence of a minute quantity of alcohol. They do not seem to contract, shrivel, or lose weight (after weeks of careless exposure on the counter or in a large window in such sunshine as obtained during almost the whole of February). The colour of the suppositories is uniform throughout the mass, and there is not the slightest sign of separation during the process of manufacture. An important question, which is for the medico to decide, is whether the minute quantity of alcohol would be an objection. On introducing the suppository there is no smarting. One would like to ask whether the unfortunate candidate for honours at the various pharmacy examinations would be "ploughed" if he or she adopted such a process and presented quite a nice picture of such things to the eye of the fearful examiner. The question of what space would the 1.7 c.c. of liquid extract occupy might afford some clue for the experimenter who would try this process. The solids in the liquid extract are stated by one authority to be 13 per cent.; this, however. is variable, but such a datum would help. Twenty-nine minims may be taken and made up to 185 grains with cocoa butter, or even 190 grains of this, for a very slight evaporation of alcohol may take place during the melting; but if this is done in a suitable way there is not much fear of great loss. The process for the water-bath is this: a large dish over a smaller dish, both on a hot plate (lid of a round tin box), supported on a tripod, and heated with a flame not larger than an inch high. As a fluid drachm of water produces 1,700 fluid drachms of steam, not much water is required in the lower vessel. All this can be dispensed with if the operator holds the dish in the fingers over a very small flame, and ensures that the heat is not much above 100° F. ABEL SCHOLAR.

# Pharmaceutical Society of Great Britain.

# North British Branch.

THE fifth evening meeting of the North British Branch of the Pharmaceutical Society was held at 36 York Place, Edinburgh, on March 17. In the unavoidable absence of the chairman and vice-chairman of the Executive, the chair was taken by Mr. Peter Boa, Ph.C. Mr. Boa said they regretted the chairman's absence through influenza, from which he was making a good recovery.

The first communication was on

An Incompatible Lotion: Salicylic Acid and Zinc Oxide.

By G. Shiach Kitchin.

The following prescription was dispensed recently, and presented no unusual features:

Acid. salicyl. ... dr. 1½ Glycer. ... drs. 4
Zinc. ox. ... drs. 4 Aq. ad... ... oz. 8
Calamin. ... dr. 1½

On standing, the insoluble sediment occupied about one-fourth of the capacity of the bottle and could easily be shaken up so as to make a thin creamy lotion. It was sent out with a "Shake-the-bottle" label. At the end of four days it had set to a gelatinous-leoking magma, completely filling the bottle, and so solid that the bottle could be inverted without any of the contents coming out. On experiment it was observed that this change does not apparently begin to take place till after two or three days. Once the process has started, however, it proceeds with considerable rapidity. Experiments showed that the result appeared to be due to a reaction between the salicylic acid and the zine oxide. The general character of the reaction may be indicated by the following equations. There is first formed neutral zine salicylate:

 $ZnO + 2(C_6H_4.OH.COOH) = Zn(C_6H_4.CH.COO)_2 + H_2O.$ 

The neutral zinc salicylate reacting with excess of zinc oxide in presence of water results in the formation of basic zinc hydroxysalicylate:

 $Zn(C_6H_4.OH.COO)_2 + Zno + 2H_2O = 2ZnOH(C_6H_4.OH.COO) + H_2O.$ 

The formula of basic zinc hydroxysalicylate may be written  ${\rm ZnOH}({\rm C_6H_4.OH.COO}){\rm H_2O}$ . It is well known that neutral zinc salts in aqueous solution, in presence of excess of zinc oxide, form a series of basic salts depending on the conditions and relative proportions of neutral salt and oxide. Quite probably the very bulky magma consists of a more highly basic hydroxysalicylate than the equation indicates. This incompatibility is important also from the fact that the prescriber believes he will have the full antiseptic effect of free salicylic acid, whereas the lotion contains a salt of salicylic acid. After consultation with the prescriber, the quantity of salicylic acid was reduced from 90 grains to 40 grains, and one fluid ounce of rectified spirit was added. This gave a satisfactory lotion.

Discussion.

Mr. Stout said he had some doubts as to the formation of a basic salicylate. In a rough experiment he found that this at least did not take place immediately, even when heated to boiling-point. After he had done this he found that apparently something like 80 per cent. of the salicylic acid was still present in the free state.

Mr. Dorr said organic acids are very apt to form basic

compounds.

Dr. WATT said it would be interesting to know whether the reaction might not extend to the phenolic group in the salicylic acid.

Mr. TAIT said at first he thought it might be a case of the method of mixing. He had proved by experiment that the calamine appeared to take no part in the reaction.

Mr. Merson said the appearance of the lotion suggested that by trituration the magma might break up and result in a permanent creamy lotion.

Mr. Hill said apparently the reaction could not be hurried even by heating, and only resulted through lapse of time. That a basic hydroxide was formed seemed strongly supported by the fact that the magma had a distinctly alkaline reaction to litmus paper. He did not think Mr. Kitchin desired to suggest any finality as to the explanation of the reaction on chemical grounds. With regard to the suggestion that the phenolic group might be involved, that and many other points might be an interesting subject for further research.

Mr. Boa recalled a similar instance when the difficulty was got over by substituting zinc carbonate for the oxide.

The next communication was on

THE ACTION OF ETHER ON METALLIC MERCURY. By D. B. Dott, Ph.C., F.I.C., F.R.S.E.

Pure ether has no action on mercury, while ether which indicates peroxide invariably reacts, causing formation of a dark-coloured film, and resulting in the formation of minute globules mixed with a grey powder when the metal and ether are shaken together. When ether containing much peroxide (the so-called ozonic ether) is employed, not only is the grey powder formed, but also a certain amount of yellow mercuric oxide. On decanting the ether from the grey powder and treating the latter with a solution of citric and acetic acids, a solution is obtained which gives strong mercury reactions with sulphuretted hydrogen, stannous chloride, and hypophosphorous acid. The reactions may be said to indicate a mixture of mercurous and mercuric salts. There can be little doubt that the value of ether in aiding the complete mixing of the mercury with the chalk in making "grey powder" is due to the presence of an oxidising impurity in the ether usually employed. Admitting that a very slight oxidation takes place when mercury and chalk powder is made in the ordinary way, it would obviously be very inadvisable indefinitely to increase the proportion of oxide by the use of ether containing an unknown percentage of peroxide.

This was followed by the reading of the following

communication:

Supplementary Note on Opium Assay. By D. B. Dott, Ph.C., F.I.C., F.R.S.E.

The following note gives the British official process, modified so as to include certain features taken from other Pharmacopæias, and containing what, in the author's opinion, is an improvement on the Japanese method of purifying the morphinate of lime solution: Mix 3.8 grams opium with 3 grams slaked lime in a mortar, add 40 c.c. water, mixing by trituration for a few minutes. Transfer to a stoppered bottle, using another 40 c.c. of water for the purpose. Let the bottle be occasionally shaken during one hour. Collect the mixture in a calico filter placed inside a paper filter. When fairly well drained, press the contents of the calico so as to get all the available solution into the paper filter. Mix 55 c.c. of the filtrate with 3 c.c. alcohol (or methylated spirit) and 2.5 c.c. of ether, adding a few drops more spirit to bring the volume after mixing to 60.5 c.c. Allow to stand ten to fifteen minutes in the stoppered measure, then filter through a small paper filter to 51 c.c. To this amount in a stoppered bottle add 25 c.c. ether and 2 grams ammonium chloride, and shake occasionally during half an hour. After eighteen hours, collect the precipitated morphine in counterpoised filters in the customary manner, using water saturated with morphine and ether for the purpose of transferring the precipitate to the filter, and washing till practically free from chloride. Dry the precipitate under 100°, wash with 12 c.c. benzene added in successive quantities of 3 c.c., dry, weigh, and titrate with N.10 acid, using tincture of cocnineal as indicator. The weight of precipitate will indicate the probable number of c.c. required. Add acid till the reaction, after boiling the solution, is permanently acid, then cautiously add N.10 soda till the reaction is neutral or faintly alkaline. The number of c.c. neutralised multiplied by 0.0285 indicates the amount of anhydrous morphine in the precipitate. To the number so obtained add

0.045, and multiply the sum by 20 to give the percentage of morphine in the opium.

# DISCUSSION.

Dr. WATT said he was glad to observe Mr. Dott's recommendation that the morphine should be dried below 100° C.

Mr. HILL said the sample of grey powder prepared by Mr. Boa at the last meeting had been lying exposed to the air for more than a week, and, notwithstanding this long exposure, it completely answered the U.S.P. tests for absence of more than a trace of mercurous oxide or mercuric oxide. Another sample which was at least twenty-seven years old, subjected to the same tests, gave clear evidence of a considerable proportion of both mercurous and mercuric oxide. The point was interesting as suggesting that metallic mercury might be a convenient test for the purity of ether required for anæsthetic purposes.

The next communication was a

NOTE ON SAMPLE OF CHLOROFORM FROM COKE-OVEN GAS. By A. J. Dey.

A specimen of chloroform from coal-gas, or perhaps more correctly from coke-oven gas, was produced as a byproduct in connection with the works of the Skinning Grove Iron Co., and it is through the courtesy of Sir John Cowan, D.L., that the specimen is now exhibited. Of course there is nothing new in making chloroform from ethyl alcohol, but this specimen is interesting as being the first that has been seen made from ethyl alcohol obtained as a waste product from coke-oven gas. On examination the sample responds to all the recognised tests for pure chloroform of the British Pharmacopæia, with the exception that when evaporated there remains a characteristic odour which is reminiscent of a smell not infrequently observed in dissolving metallic iron in a dilute mineral acid. It was found that the sample could be freed from this impurity by treatment with sulphuric acid, and it seems highly probable that it is a hydro-carbon or a mercaptan. It is hardly likely that coneoven gas will become a source from which to manufacture chloroform, though it may probably be a commercial source for the production of ethyl alcohol for industrial purposes.

#### Discussion.

Mr. Hill said there was a scheme for low-temperature carbonisation of coal, in connection with which products like benzol, toluol, naphthalene, and alcohol were obtained in large quantities and on a chemical basis, and the great demand for liquid fuel gave an impetus to the movement. Sir John Cowan had incidentally shown him this unique specimen, and had most readily agreed to send it for exhibition at the meeting. Sir John had suggested that Mr. Dey, whose firm had examined the sample, would furnish a brief explanatory note.

Dr. Watt said it was interesting that Edinburgh, the home of chloroform making, should be the place where this first specimen of chloroform made from coal-gas was

exhibited.

Mr. Guyer said the odour after evaporation strongly suggested some sulphur compound.

The next communication was a

# NOTE ON PROTOIODIDE OF MERCURY. By J. Rutherford Hill, Ph.C.

Recently quite a number of inquiries have been received from different quarters as to what precisely is intended by the prescriber in the following prescription:

Hydrarg, protoiodid, Pulv. opii ... ... ....

The answer given was "Hydrarg iodid vir. of the 1867 B.P." It seemed open to doubt, however, whether this was quite correct, and the more so that American and Canadian prescriptions have become increasingly common in this country in recent years. It was found on inquiry that most of the prescriptions emanated from the V.D. clinic attached to a large general hospital. The prescriber said he had in mind the Protoiodure de Mercure of the French Codex, which is made by triturating metallic mercury with iodine in presence of alcohol, the proportion of

mercury to iodine being slightly higher than in the B.P. The answer given was therefore correct. In Martindale's Extra Pharmacopæia protoiodide of mercury is given as a synonym for green iodide of mercury of the 1867 B.P., and it is the custom of British wholesale houses to supply green mercurous iodide when protoiodide of mercury is ordered.

Mr. Hill then gave a detailed account of the nomenclature found in Continental Pharmacopæias indicating dosage, physical, and chemical characteristics, and a résumé of the work of previous investigators. He pointed out also how the use of strictly systematic scientific names may be conducive to errors, and suggested, in order to distinguish between the mercurous and more potent mercuric salts, that their names be hydrargyrum subiodidum and periodidum respectively, following the precedent established in hydrarg, subchlor, and perchlor.

#### Discussion.

Mr. Box said this salt was now rarely used. Twenty, years ago it was frequently employed as a remedy in bilious conditions in combination with colocynth pills. He had recollections as an apprentice of preparing it in considerable quantity for veterinary purposes.

The next communication was on

THE IMPORTANCE OF THE MEDICINAL PLANT AND HERB GROWING INDUSTRY TO BRITAIN.

# By E. M. Holmes, Ph.C., F.L.S.

In his introductory remarks Mr. Holmes referred to what other countries are doing in this matter, quoting THE CHEMIST AND DRUGGIST (March 6, p. 62), which referred to a decree of the Hungarian Government placing the medicinal-herb industry under State control. He pointed out that the United States have exported Cannabis indica, of good medicinal value, to this country, and they are supplying henbane, belladonna, and digitalis to our South African and Australian Colonies. Through these farms the selection of strains and individual plants with a higher alkaloidal content than normal enables them to compete with countries which have not the advantage of this form of Government help.

The present time offers a unique opportunity, which, if neglected, is not likely to occur again, for Great Britain to secure a large share of the world's trade in medicinal plants and herbs. Many American drugs can be grown readily in this country. There is also at the present time a demand for Russian medicinal plants, which might with proper organisation be easily met. For example, there is birch-tar oil, "Oleum Rusci." It is not only used medicinally, but is largely employed in giving the "Russia" leather" odour. This product has not been obtainable since the war commenced. It might easily be made experimentally and developed into an industry in the New Forest, or in Scotland, where the birch is abundant, by the use of a gas retort, or cheaper contrivance, as is done in Russia. It could be made not merely for medicinal purposes, but for universal use for dressing and giving the special odour of Russia leather due to pyrobetulin, Sumbul can be grown in this country if protected from the late frosts. Sumbul can Santonica would probably do well in salt marshes in Kent and in Dorset and Surrey, where Artemisia Gallica flourishes. An enterprising American has recently decided to attempt the growing in the United States of the only other species known to yield santonin—namely, the Artemisia Gallica var. maritima. An Englishman in China is endeavouring to get the seeds or plants of the true Artemisia Cina to grow in China. Ergot is another Russian drug that might be collected in this country. The speaker saw near Montrose a large field of rye dotted all over with the black sclerotiums. Mr. Holmes then referred to culinary herbs, and also to the practice of adulteration, which is frequent in other countries. The value of Government inspection was then indicated, and cases were mentioned showing the dangers that could have been avoided by such a system as exists in the U.S.A. or Japan. The speaker then referred to the attempts made after the outbreak of the war to start a herb industry. The many failures he showed were due to lack of sympathy with the projects on the part of the Agricultural Department, and also to lack of business knowledge, adequate funds, and co-operation. He pointed out what could be done, using as an illustration the collection of sphagnum moss and valerian root in Scotland. He then outlined a far-reaching scheme for the establishment of the industry, and mentioned a few of the plants which could be successfully and easily cultivated at a profit.

#### DRUG CULTIVATION IN MIDLOTHIAN.

Mr. R. Glode Guyer, as illustrating the highly successful cultivation of medicinal plants in Midlothian, exhibited a series of exquisite photographs, taken in July 1918, and including general views of Duncan, Flockhart & Co.'s drug garden at Inverleith Row, Edinburgh, and beds of Acontum Napellus, Atropa Belladonna (second and third year's growth), Datura Stramonium, Digitalis purpurca (first and second year's growth), Hyoscyamus niger (second year's growth), Papaver somniferum, and Valeriana officinalis.

#### DISCUSSION.

Dr. Smith said many of those who took up the cultivation of medicinal plants and herbs because of the war conditions found they could not get a price that was remunerative. As to the suggestion of Government inspection, his experience was that that would probably absolutely put an end to any prospect of success.

Mr. Guyer said Mr. Holmes was an enthusiast on this subject, but he (Mr. Guyer) could hardly say he was such an optimist. It had been suggested that Scotland was no good for the growing of medicinal plants compared with areas further south. His experience showed that to be a mistake.

On the motion of the chairman, a cordial vote of thanks was awarded to the authors of papers, and also to Sir John Cowan, D.L., and Mr. John Cruickshank (the sender of the chamomiles).

# Business Changes.

MR. E. DEL MAR has removed to 3 Manchester Street, Manchester Square, London, W. 1. Telephone: Mayfair 6908

Mr. A. Tyreman, chemist and druggist, has purchased the business of Mr. C. E. Harston, chemist and druggist, 55 Burton Road, Lincoln.

MR. FAIRFAX FEARNLEY, chemist and druggist, Manor Square, Otley, has purchased the business of Mr. Fred Archer, chemist and druggist, Oxford Street, Guiseley.

F. G. HOPKINS BROS., chemists, High Street, Bilston, have opened an optical department; Mr. Leslie Hopkins, F.S.M.C., F.I.O., chemist and druggist, is in charge.

Mr. G. E. Lawes, late manager of Trick's Drug Stores, Barking Road, London, E. 13, has purchased the Heath Town branch of the Wednesfield Drug Stores (Lim.), Wolverhampton.

MR. F. HAROLD WEBBER, chemist and druggist, has acquired the business of the Tiverton Drug Co., 14 Bridge Street, Tiverton, recently carried on by Mr. W. Holford Meyer, chemist and druggist.

THE CASSON CHEMICAL Co., LTD., have bought up the shares of the Ormside Chemical Co., Ltd., 57 Poland Street, W. 1, which, however, will continue to trade as the Ormside Chemical Co., Ltd., but under the same direction and management. New offices and works have been purchased at 444 Westbourne Grove, Bayswater, for both companies, and the telephone numbers are now Park 3568 and Park 2884.

In consequence of the death of Mr. M. P. Ismay, the business of John Ismay & Sons, manufacturing chemists, City Road, Newcastle-on-Tyne, has been closed as from March 22. The factory, a modern, well-equipped building. has been acquired by Angus Watson & Co., Ltd., of "Skippers" fame; and another group of local business men is negotiating, it is understood, for the purchase of the stock as a whole.

# Associations' Winter Session.

Bradford,—Before the Bradford Pharmacists' Association, on March 18, Mr. S. Jamieson, of The William Browning Co., Ltd., gave a lantern lecture on Petroleum Oil, from the Wells to the Pharmacy. The President (Mr. F. E. Burdett) occupied the chair. Mr. Jamieson, in the course of his lecture, explained the differences in quality necessary in the oil for toilet purposes and for medicinal uses, incidentally remarking that, although chemists usually prefer the bloomless oil for toilet purposes, he thought the oil with the bloom had distinct advantages. In the discussion which followed Mr. Jamieson stated, in answer to a question, that it could hardly be claimed that Russian oil taken generally was any better than others.

Chemists' Association held the monthly meeting at Hill Street recently, 'Mr. John Murchie, President, in the chair. There was a large audience to hear Mr. D. G. Mackenzie deliver his lecture on The Pharmacist as a Photographer. Mr. McKenzie, who has had considerable experience in all branches of photography, explained many of the little tricks and dodges that could be resorted to in order to produce a good result from a faulty photograph. A discussion ensued, which was taken part in by Messrs. A. N. White, McEwan, Guthrie, McVitae, Arthur, Crombie, Kitchin, Seivwright, and others.

Gloucestershire.—The monthly meeting of the Gloucestershire Pharmacists' Association was held on March 18, the President (Mr. W. H. Hill) in the chair. The following resolution was passed: That the secretary be instructed to inform the chairman of the Local Associations Executive that this association is of opinion that until the result of the test case is known, no action should be taken regarding the formation of a trade union of master pharmacists, and that the L.A.E. be asked to take the necessary steps immediately the decision in the test case is obtained. The gathering was then addressed by Mr. John Keall on The Proprietury Articles Trade Association. A discussion followed, in which Messrs. Hampton, Minchin, Hawley, Wm. Palmer, James, and Clark took part.

Hampshire.—The quarterly meeting of the Hampshire Pharmacists' Association was held on March 17, the President (Mr. E. H. Smith, Gosport) in the chair. The secretary reported that no steps had been taken to form the Federation of Local Associations in the area. The chairman, in opening a discussion on Profit on Proprietary Medicine, expressed the opinion that the association should take some step towards getting better terms from the manufacturers, and it was resolved that an official letter from the association should be sent to all manufacturers of unprofitable proprietaries urging upon them the necessity of giving adequate remuneration to the retailers. The secretary brought forward the question of dispensing charges, and a majority expressed the opinion that a scheme should be adopted. Mr. H. J. Martin, Christchurch (President of the Bournemouth Pharmaceutical Association), gave particulars of the working of that adopted by their association, and the following resolution was unanimously passed: That an official letter be sent to every practising pharmacist in the county drawing attention to the discrepancy in dispensing charges at the present time, and requesting that the dispensing scale as published in the British and Colonial Minimum Retail Price List be used as a basis for pricing prescriptions, and that the first dispenser of a prescription should mark the price according to the recommendation in the list. The President, as chairman of the Pharmaceutical Committee, gave an account of the work of that Committee in preparing a scheme under Article 9 of the Insurance Regulations. By the hospitality of the Vice-President, Mr. Dodridge (Woolston), tea was served to the members during the meeting.

Lancashire.—The North-East Lancashire Chemists' Association discussed, at a recent meeting, the circular from Halifax regarding unremunerative proprietary goods,

in which the boycott policy is recommended, together with the letter received from Birmingham disapproving of any general boycott, but urging other means to attain the same purpose. The Blackburn members decided to adopt the Birmingham recommendation, and to get into direct touch with the manufacturers, with a view to obtaining improved terms. The secretary (Mr. F. Law) was instructed to write to the manufacturers named on the lines suggested.

Liverpool.—At the Royal Institution, on March 24, Dr. J. A. Clubb, director of the Liverpool Public Museums, and brother of Mr. Clubb (Vice-President, Liverpool Chemists' Association), gave a lantern lecture on The Public Museums and Education. The subject, he showed, was timely in view of the increasing official recognition of the museums as a factor in popular education. In 1865 the Liverpool Museum became the pioneer in displaying animals and birds in their habitat, to demonstrate where and how they lived. In 1884 school cabinets, supplemented by courses of lectures at the museum by the staff, were introduced, but the education authorities had not responded adequately. Guide lecturers were tried, and the idea was to be developed. For the past eighteen months raised inscriptions for the benefit of the blind had been fixed, and since a blind lady asked to "see" the whale, parties of blind adults and children had been conducted personally through the museum. Having pointed out that the public museums in this country are sadly understaffed, he advocated that each important museum should form, as in the United States Museum of Natural History, a department of public instruction.

London (Co.).—A meeting of the Executive Committee of the London County Pharmaceutical Association was held on March 16, Mr. G. B. Barnard (President) in the chair. A resolution was passed "That this association is of opinion that, until the result of the test case is known, no action should be taken regarding the formation of a trade union of master pharmacists, and that the L.A.E. be asked to take any necessary steps immediately the decision in the test case has been obtained." The secretary reported: (a) That an extraordinary general meeting of the "Script" shareholders would take place shortly regarding the future of the journal. (b) That Messrs. A. R. Melhuish, E. A. Atkins, and A. R. Keith had been nominated as candidates for the Pharmaceutical Council election. A discussion ensued, during which a letter from Mr. Skinner on the subject of nomination was read. Information was received that a large number of candidates were in the field. It was afterwards decided to hold a special meeting of the Executive Committee on April 8, when the full list of candidates would be available for consideration. (c) On the annual meeting of the Early Closing Association, held on March 11. The Trade Sub-Committee reported on their activities regarding unprofitable patents and proprietaries. The Executive Committee decided that a dinner should not be held until early in October. The report of the Pharmaceutical Sub-Committee was adopted, and the Committee considered it advisable to urge the chairman of the Pharmaceutical Committee to send a special letter on the abolition of "Rep. mist." to each chemist on the

London (W.).—A meeting of the Western Pharmacists' Association was held at Pinoli's Restaurant, Wardour Street, W., on March 24, the President (Mr. H. S. Watson) in the chair. About fifty members were present. A letter had been received from the Southport Association concerning the formation of a union of master pharmacists, and another one from the L.A.E. deprecating any action until the coming test case was finished. Mr. C. A. Noble stated that the Proprietary Articles Trade Association has decided to apply to the authorities to increase the lowest medicine-stamp value to 1s. 6d. Letters have been sent to members of Parliament, and it was suggested that pharmacists should also write to their local members. An interesting lecture was given by Mr. J. Ward, B.Sc., on Colloids in Pharmacy, illustrated by a microscopic display. Mr. Ward explained the history of colloids in general and some of their uses, and a'so

answered a number of questions. A vote of thanks was passed to the lecturer, who suitably replied.

Manchester.—The monthly meeting of the Manchester Pharmaceutical Association was held at the Chess Club, Market Street, on March 17, when Mr. P. F. Rowsell, Vice-President of the Pharmaceutical Society, gave an address on The Ministry of Health and Pharmacy. Mr. Rowsell dealt with the transition to the enlarged activities of the Ministry of Health Act. In passing, he paid a tribute to the late Sir Robert Morant, with whom he had had many interviews and in whom the pharmacists had a great friend. The Ministry of Health Act was then outlined, and Mr. Rowsell said very soon they would know what he would have liked to have told them that afternoon.

Middlesex.—A meeting of the County Executive of the Middlesex Pharmacentical Association was held on March 17, Mr. C. W. Andrew in the chair. The secretary reported that Parke, Davis & Co. had offered to furnish scientific lectures for the next winter session. A letter from the Southport Pharmacists' Association-directed attention to the urgent need for a trade-union of master pharmacists, and it was unanimously resolved to support the movement for the early formation of such a union. Sympathetic consideration was also given to a letter from the Birmingham Pharmaceutical Association on the question of unremunerative proprietary articles. It was intimated that Mr. H. R. Storm had been selected to represent the Ealing Association on the Executive in succession to Mr. A. G. Wrench, resigned.

Staffordshire.—A meeting of the Staffordshire Pharmacists' Association was held on March 11, when Mr. John Keall gave an address entitled The Forward Movement in Pharmacy. Mr. Keall dealt with Proprietary Articles Trade Association matters, suggesting the attitude that should be adopted toward manufacturers who refuse to consider retailers. As President of the Chemists' Defence Association the speaker gave an interesting account of the work of that association, and cited several instances of the invaluable protection afforded to members. Reference was made to the Ministry of Health and the activities of the Pharmaceutical Society. A discussion followed. Tca was served at 4.30 p.m., and afterwards a general meeting of the association was held to formulate the rules of the association, in accordance with which Messrs. Belsher, Edge, Fereday, Morris, and Wood were elected to the committee. The annual subscription for members was raised to 2s. 6d. plus the federation fee when not paid through another association. The rules provide for the admission of assistants and apprentices, the annual subscription being 1s. The secretary, on behalf of the delegates (Messrs. Garland and Fowke) read a report of the federation meeting held in Birmingham. The linking up of the association with other associations in the West Midland Federation was confirmed.

Stowmarket.—The Ipswich and Suffolk Chemists' Association met at Stowmarket on March 14, when the following resolution was passed: "That this association views with apprehension the tendency on the part of manufacturers and wholesalers to pass every selling expense on to the retailer, and urges the carly formation of a registered trade union of master pharmacists to protect their trading interests." Mr. Walton (Needham Market) was elected a member. The recent Federation meeting at Cambridge then came up for discussion, and the association pledged itself to support the nominee of the Federation for the forthcoming election. The next meeting will be held in Ipswich during April, when Dr. J. S. White will give his lecture on Biological Preparations.

German Glycerin Prices.—At a meeting of the Glycerin Company it was decided to fix the prices of chemically pure glycerin at 24m. per kilo., and for dynamite purposes at 21m. It was also pointed out that the production of glycerin from sugar by the Protol process should be resumed, otherwise the production of dynamite for mining would be considerably endangered during the current year.

# Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

# Reports from Local Centres.

Hampshire.—A meeting of the Pharmaceutical Committee took place at Southampton on March 17, the chairman, Mr. E. H. Smith (Gosport), presiding. An amended scheme under Article 9 of the Insurance Regulations was approved.

London.—The Insurance Committee met on March 15 to consider, among other business, the reports of the various sub-committees. The following is abstracted from the agenda: In the statement of accounts submitted by the Finance Sub-Committee dispensaries are debited with 3941. Payments to chemists for the medical year 1919 amounted to 14,0441. 14s. 2d. The total value of accounts amounted to 114,1551. 19s. 4d. The Medical Benefit Sub-Committee intimated that the number of persons supplying drugs and appliances on February 29 was as follows: Chemists in general business, 666; in institutions, 37; other persons, 24. The names of twenty-four persons have been removed from the list, and ten have been added.

Middlesex.—At a meeting of the Pharmaceutical Committee held on March 17, Mr. C. W. Andrew in the chair, the scheme for securing a proper pharmaceutical service was approved, and particulars were furnished of steps taken by the secretary to secure rectification of the panel list. The treatment of prescriptions marked "Urgent" was discussed, and it was decided to recommend that insured persons be asked to initial these prescriptions, so that there should be no question as to the time they were dispensed. The secretary was also instructed to communicate with the secretary of the Panel Committee on the subject of late prescriptions. The checking department reported that the December scripts numbered 67,232 (average cost 10.2d.), and prescriptions 81,896 (average cost 8.4d.). Average costs for 1919 were 9.4d. per script and 7.9d. per prescription. It had been necessary to write to two chemists who had caused delay.

Worcestershire.—The Insurance Committee recently investigated complaints made by the Trades and Labour Council in the Halesowen district regarding the undue delay in making up prescriptions. On investigation the Committee expressed the opinion that while there had been some delay as a result of the influenza epidemic, this was not excessive, and they have replied that the complaints were considerably exaggerated.

### Ministry of Health Appointments.

The Ministry of Health is inviting applications from medical men for appointments on the new staff of outdoor whole-time and part-time medical officers. The duties of the whole-time officers will be partly clinical, partly administrative; of the part-time officers elinical only. The clinical duties of the medical officers will consist in examining insured persons referred to them by Approved Societies or doctors, in advising the societies and doctors on questions of incapacity for work, and in advising doctors on questions of diagnosis and treatment. The clinical duties will thus combine those of referee and consultant. For cases of special medical difficulty specialist advice as to diagnosis or treatment will be made available for the assistance of the medical officers. The administrative duties will include examining health insurance medical certificates, records, reports, and prescriptions, and making inquiries of insurance practitioners respecting any points arising on these or arising out of the examination of insured persons. The medical officers will also make such other inquiries and take such action in-connection either with the work of the Insurance Medical Service or with other branches of the work of the Ministry as the Ministry may from time to time require. The Minister proposes to appoint in the first instance eighteen whole-time officers for England and three for Wales. In addition, there will be a small

number of supervisory posts. It is contemplated that this number of whole-time officers may be increased (with a corresponding reduction in the employment of part-time officers) so soon as sufficient experience has been gained of the working of the arrangements.

# March Drug Tariff.

THE following are the alterations for March in the Drug Tariff for England and Wales issued by the Ministry of Health:

Lower: Adeps lanæ, 3s. 4d. lb.; adeps lanæ hydrosus, 2s. 10d. lb.; glycer, acid. tannic., 5s. lb.; methylsulpbonal, 5s. 3d. oz.; ol. morrhuæ (Norwegian, opt.), 27s. gal.; oxymel scillæ, 1s. 6d. lb.; paraff. liq., 2s. 1d.; sodii benz. (artificial), 8\frac{1}{2}d. oz.; spt. vini meth., 9s. 6d. gall.; sulphonal, 5s. 8d. oz. Lint unmedicated, 1 oz., 4 5d. Catheters, soft rubber (over 12), 12s. each.

Higher: Acetanilidum, 6d. oz.; acid. carbolic. (detacbed crystals), 2s. 11d. lb.; acid. carbolic. liq., 2s. 7d. lb.; acid. citric. pulv., 6s. 3d. lb.; acid. carbolic. liq., 2s. 7d. lb.; acid. citric. pulv., 6s. 3d. lb.; acid. tartaric., 4s. 6d. lb.; argent. nit., 6s. 2d. oz.; argent. nit. indur., 6s. 3d. oz.; argent. proteinat., 2s. 8d. oz.; bals. Peruv., 3s. oz.; calc. lact., 14s. 3d. lb.; dec. senegæ (ex conc.), 13s. lb.; emp. plumbi, 6d. per sq. ft.; emp. sapor is, 6\*8d. per sq. ft.; ext. viburn. liq., 14s. 6d. lb.; ferri et ammon. cit., 7s. 4d. lb.; ferri et quin. cit., 2s. 3d. oz.; bexamina, 1s. 6d. oz.; bydrarg. oxid. fiav., 11s. 4d. lb.; hydrarg. subchlor., 11s. 4d. lb.; bydrargyrum, amm., 12\*4d. lb.; hydrargyrum, amm., 12\*4d. lb.; hydrargyrum c. creta. 4s. 10d. lb.; inf. casearill. (ex conc.), 4s. 9d. lb.; inf. senegæ (ex conc.), 11s. lb.; inf. serpentariæ (ex conc.), 6s. lb.; lin. metbyl. sal. co., B.P.C., 17s. 6d. lb.; lin. tereb. acet., 6s. 8d. lb.; liq. formaldebyd., 4s. lb.; narbthol, 1s. oz.; ol. olivæ (sublime), 28s. gall; ol. ricini. 1s. 9d. lb.; ol. tereb. rectif., 3s. 10d. lb.; parafl. mol. (alb.), 2s. 44d. lb.; parafl. mol. (flav.), 1s. 6½d. lb.; raraldehyd., 10½d. oz.; phenazon., 2s. 6d. oz.; podorh. res., 4s. 9d. oz.; pot. cit., 8s. 1d. lb.; pot. iod., 20s. 9d. lb.; pot. permang., 7s. 6d. lb.; pulv. alph., 5s. 4d. oz.; resorcinum, 4s. 9d. oz.; santonin., 4\*ss. 6d. oz.; sodii et pot. tart., 2s. 3d. lb.; sodii iod., 2s. oz.; strych. hydrochlor., 10s. 9d. oz.; sulphur precip., 1s. 7d. lb.; syr. calc. lactophosoh. 3s. 7d. lb.; syr. carantii, 2s. 11d. lb.; syr. calc. lactophosoh. 3s. 7d. lb.; syr. carantii, 2s. 11d. lb.; syr. ferri iod., 3s. 9d. lb.; syr. ferri phosph., 1s. 1d. lb.; syr. ferri iod., 3s. 9d. lb.; syr. ferri phosph., 1s. 1d. lb.; syr. ferri iod., 3s. 9d. lb.; syr. ferri phosph., 1s. 1d. lb.; syr. ferri iod., 3s. 9d. lb.; syr. sennæ, 2s. 10d. lb.; syr. limonis 2s. 5d. lb.; syr. pruni virg., 2s. 7d. lb.; syr. freri phosph. c. g. 3s. 8d. lb.; syr. sennæ, 2s. 10d. lb.; syr. timonis 2s

Swiss Chemicals Booming.—Some interesting remarks regarding the present position of the chemical market in Switzerland are made by Dr. N. Hansen. He states that there is an enormous demand in Switzerland for pharmaceutical drugs, especially antipyrin, pyramidon, caffeine, silver nitrate, and potassium permanganate, and the demand comes from Italian and French firms, particularly from those in the South of France. Italy is interested in the purchase of formic acid. potassium hydroxide, magnesium sulphate, oxalic acid, potash, ammonia, potassium bichromate, barium chloride, etc. French firms are offering milk-sugar at 6.50 fr., technical casein at 2.75 fr., pure casein at 6 fr. to 6.50 fr. Raw materials, such as paraffin, resin. and turpentine oil, are much cheaper in Germany and in the occupied territories than in Switzerland, which points to the fact that the Allied countries are supplying these articles at lower rates than they do to the Swiss consumers. England is offering borax in Switzerland at 561. per ton, ex Manchester. It is a fact that the Swiss consumer can purchase borax at a lower rate in Cologne or Amsterdam than he has to pay at the Italian frontier, at Chiasso, and Dr. Hansen sees in this a confirmation of the rumour that Great Britain has bought up all the borax, with the intention of controlling the world's price.

# The Economic Resources of Burma.

# VIII.—Camphor.

CAMPHOR is selling retail in the Indian and Burmese markets at about fifteen times the price which it fetched some twenty-five or thirty years ago, although hostilities have long eeased. Camphor, it need hardly be said, forms a valuable sedative and anodyne in medicine, and enters not only into the pharmacopæia of all civilised countries in Europe and America, but is extensively used in all Eastern medicinal systems as well. Dr. F. Mason, who wrote a valuable statistical work on Burma and its productions, first published over sixty years ago, and of which there have been numerous editions since, was a learned American missionary and botanist, and lived for over twenty years in the country, travelling constantly over many parts of it. He states in his book that in Tavoy, where he resided for several years, there was a species of Blumea which grew in that district as an abundant weed to a height of six or eight feet, the leaves of which, when bruised, emitted a strong odour of camphor. The people of Tavoy told him they were in the habit of making an impure camphor from these leaves by a very simple process, and a Government officer sta-tioned in Tavoy made about one cwt. of camphor from the leaves, which he sent to Calcutta. It was reported on then as in its refined form, 'identical in all its properties with Chinese camphor.' Dr. Mason wrote in 1860: "The plant is so abundant that Burma might supply half the world with eamphor. Wherever the trees are cut down, this weed springs up, and often to the exclusion of almost everything else, so that an old clearing looks like a field under euritivation." Of course the world's demand for camphor in 1860 was nothing like what it has grown to now, whilst the article itself, though it was largely used in medicine, was cheap and abundant, and therefore not greatly valued. Flowering specimens of the plant were sent to Dr. Veight of Samuraca for identify the contract of the plant were sent to Dr. Voight, of Scrampore, for identification. He reported them as belonging to De Candolle's genus Blumea, and, so far as he could see, a new species. Dr. Mason himself thought there could hardly be a doubt that the plant was the same as that which appeared in Wallach's catalogue in 1835 as Conyza grandis, and which De Candolle subsequently described as Blumea grandis. Wallach's specimens were from Tayoy, Burma, without development of the control of grandis. Wallach's specimens were from Tavoy, Durma, without flowers, and De Candolle describes the leaf as nine inches long with the petiole, by three wide ("cum petiolo poll. longo 3 poll. lato"), serrated, and bearing on the petiole five or six remote linear acute lobes ("petiolis lobulos 5-6 distantes lineares acutos gerentibus"). This corresponds very accurately with some specimens of the Burma camphor plant, but does not correspond, Dr. Mason says, with any other species of Blumea in the country with which he was acquainted. When camphor began largely to increase in price, and the uses it was put to were greatly extended after the war of Japan with China, it is strange that the Burma Government took no steps to ascertain the exact nature of the plant in Burma, which grows so abundantly, and which was reported sixty years ago to have all its attributes. It is quite possible that their remissness may have increased our war expenditure during 1914-18 by many thousands of pounds sterling. The Burma Forest Department have a Forest Research Officer now, and though his time was largely taken up in 1917 and 1918 by his being attached to the Munitions Department, which had to supply enormous quantities of timber to the Mesopotamia Field Force, he managed to send supplies of leaves and shoots from a Burma camphor plantation to Dehra Dun last year for analysis and distillation, so that we should soon be in possession of valuable information which we might, except for Government indifference and apathy on this important subject, have ascertained at least twenty-five or thirty years ago.

# Indian Industries.

# I.-Sugar.

The national importance of the sugar industry in India would seem at last to be recognised by the Government, and a Committee is now sitting, under the presidency of the Agricultural Adviser, to consider and advise the Government on the following points of reference:

(1) To examine the various sugar-cane-growing traets of India with a view to determining the nature of the expansion possible in such tracts, either by the development of a factory industry or by improvements in the existing indigenous methods; (2) to examine the possibility of consolidating the areas under gane and of the extent to which this is limited by the existing systems of land tenure; (3) to report on the work already done by the sugar expert with regard to the breeding and selection of improved varieties of cane, and to make suggestions as to the extent and direction in which this work can be further expanded; (4) to examine the present methods of co-ordinating work on sugar-cane adopted by the agricultural departments working in the various provinces and the efficiency of agricultural practice in vogue in India or recommended by the Agricultural Department; (5) to examine the existing sugar-factory industry in India, and to advise in what localities and underwhat conditions a factory industry can be successfully established; (6) to examine the economic and labour conditions now prevalent in the various districts where expansion of the sugar industry is likely, and the question of improving railway facilities and other means of transport which may be required with a view to furthering the spread of the industry; (7) to investigate the work that is being done in the introduction of improved small-power plants and small-power factories; (8) to review the position of India with regard to the world's sugar supply, and to formulate recommendations for the improvement of that position; (9) to investigate the conditions under which refined and raw sugar and melasses are imported into India; (10) to examine the effects of controlling such imports by a duty, and, where necessary, grading this duty so as to give preference to sugar grown in British Dependencies; and (11) to examine the present conditions governing the manufacture of rum under licence from Government and the question of distributing such Governm

Sugar-cane is indigenous in India, and regarding the desirability of its expansion and the improvement in its cultivation there can be no doubt. The food value of sugar is high, and its annual consumption has been increasing steadily for many years past. India, until comparatively recent years, stood first of all countries in the world in its area under sugar-cane, and even now ranks second only to Cuba, but it is notorious that the yield both of cane and raw sugar per acre, and the percentage of available sugar extracted, are undesirably low. In the past India was able to produce a surplus of sugar available for export, and she might, with improved methods of working, be able to do so again. But in recent years she has had to supplement her own supplies by imports, checked only by war conditions and the advance in price which has taken place in all countries of the world. She will, unless she can improve her methods of cultivation and extraction, either have to reduce her consumption or pay increased amounts of money to obtain what she wants. There have been many indications that improved methods can be brought about, and this would solve the difficulty. The composition of the proposed Committee has not yet been wholly decided on, but there will be representatives of all the chief cultivators, refiners, and those with the largest interests in the industry, and two experts from England will join it at a later date. The assistance of all provincial Governments and every facility for the furtherance of the investigation and the examination of witnesses will be available, and it is, therefore, with some confidence that the public look forward to the conclusion of the Committee's labours as likely to prove of immense advantage to this important industry, and to the increased production of what is so greatly in demand by all classes of some 300 millions of people.

# Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C. 4, March 25.

THERE is little of interest to report this week in the drug market, while in Mincing Lane itself business has continued very quiet, and, as is usual in such circumstances, concessions here and there would be made. Heavy chemicals continue active, and there is a steady trade passing in pharmaceutical chemicals. The disquieting and delicate situation in Germany, the Middle East, and elsewhere has a tendency to sap enterprise at the moment, and until the political outlook is clearer a cautious policy is adopted. The demoralisation in the French, Belgian, and Italian exchanges on Tuesday almost entirely stopped business on that day; but a natural reaction has since taken place. Other Continental exchanges have also gone in our favour. The improvement in the sterling exchange in the United States should induce better business, and in several instances there has been a slight revision in prices quoted for chemicals and drugs by sellers from the other side. It is reported that the outlook for the settlement of the Dutch transport strike is more favourable, and another week may see the end of it. Japanese products, like menthol, dementholised oil of mint, and slab camphor have eased, in the absence of adequate support. Citric and tartaric acids and cream of tartar are strong and dearer, with more inquiry in the two former than can be handled. Mercurials are 3d, higher. Phenacetin is dearer on a brisk demand. Aspirin, salicylates, and barbitone tend firmer. Among the easier items are bromide of ammonia, resorcin, sulphoual, lithia carbonate, and paraformaldehyde. Milk-sugar is lower. Among drugs and spices, new Norwegian cod-liver oil has been offered at lower prices, but at the close is firmer; canary-seed, cassia lignea, cinnamon, nutmegs, mace, and pepper have moved in buyers' favour. Opium is unsettled in view of turmoil in Turkey, supplies from the interior being held up. Other changes include an advance of 10s, in sal ammoniac, a substantial reduction in shellac and turpentine, and to a less extent in linseed oil.

Higher	Firmer	Easier	Lower
Citric acid Cream of tartar Mercurials Orange oil (Sp.) Phenacetin Sal ammoniac Sugar Tartaric acid	Aspirin Barbitone Bay oll Mercury Salicylates	Ammon, bromide Camphor (Jp. slabs) Canary-seed Caraway oil Cassia lignea Cloves (Zan.) Farina Ginger!(Jp.) Menthol Para- formaldedyde Resorcin Sulphonal Tonka-beans	Bois de rose oil Caraway oil Cinnamon Cinnamon-Leaf oil Cod-liver oil (Norw.) Lead compoun Linseed oil Lithia carb.6 Mace Milk sugar Mint oil (Jp.) Nutmegs Pepper Platinum Shellae Soya oil Thyme oils Turpentine Terpineol Valerian oil

# Cablegrams.

Bergen, March 24.—The eatch of cod now amounts to 12,904,000, against 8,983,000 at the corresponding date of last year. The yield of steam-refined oil is 20,195 barrels, against 11,123 barrels. Market is firmer and prices are rising.

New York, March 24.—Business is fair. Mercury is \$5.00 dearer at \$95.00 per bottle. Formaldehyde is lower at 70c, per lb., and hexamine is also lower at \$3.10.

Cartagena ipecacuanha is cheaper at \$3.25. Balsam tolu has been reduced to \$1.50, balsam Peru to \$5.75 per lb., and Oregon balsam of fir to \$1.75 per American gal. Belladonna-leaves are cheaper at 32c. per lb.

Agar-Agar.—Spot sales of No. 1 Kobe have been made at 3s. 3d. per lb.

Ammonia Sulphate is in good demand for home consumption at 22l. per ton for March-April delivery; export price to the Colonies is 43l., and to foreign countries 50l. to 55l. per ton f.o.b.

Anise.—Spanish has been sold at 95s. per cwt. on the

spot, being steady.

Antimony.—The position is unaltered, but there is a more conservative feeling as to future developments. Demand at any rate for regulus is quieter at late rates, although high prices are still demanded by French smelters. The inquiry for crude still goes on, but practically nothing is offered.

APRICOT KERNELS are offered at 75s. per cwt. on the

spot, and afloat at 74s. c.i.f.

ARSENIC is firm at 681, to 701, per ton delivered here for white Cornish.

Aspirin is firmer at from 6s. 3d. to 6s. 6d. per lb. on the spot.

Balsams.—Our New York cable indicates easier markets for Peru, tolu and Oregon fir. Spot (London) sales of Peru have been made at 29s. and tolu at 9s. Copaiba (B.P.) is quoted at 4s. 6d., Maranham in casks as imported at 48, 6d., and filtered in cases at 48, 8d. Para is 38, 2d. Canada balsam is offered at 10s. 6d.

Barbirone is offered at from 26s. to 28s. per lb. on the spot as to seller, being firmer. Slightly higher prices are

asked from the Continent,

Browides.—Ammonia is slightly easier at 4s. to 4s. 3d. per lb. Sodium is 4s., and potash 3s. 10d. to 4s. for granular and crystals respectively.

Buchu.—An arrival of a parcel of round, long, and oval has taken place, which are expected to sell at extremely

high prices.

Camphor (Refined) is quiet and easier, Japanese  $2\frac{1}{2}$ 4b. slabs being offered at 17s. 6d, per lb. on the spot, at which business has been done;  $\frac{1}{3}$ ,  $\frac{1}{4}$ , and  $\frac{1}{2}$  oz. tablets are quoted at 19s. per lb.

CANARY-SEED is easier, with business in good medium quality Morocco at 190s. down to 185s. per quarter.

CAPSICUMS continue scarce, but larger supplies are expected on the market shortly. Limited lots of Mombasa and Zanzibar are offered at 110s. and Sierra Leone at from 105s. to 110s. per cwt.
CARAWAY-SEED is unchanged at 48s. per cwt. for fair

Dutch on the spot.

Carbolic Acid remains firm at from 1s. 3d. to 1s. 6d. per lb. for 39° to 40° C. crystals in large bulk packing. Export licences to certain countries are still being refused, and buyers who have contracted for considerable quantities from the makers, as far back as December last, in some instances, when export dicences were being granted, now find it impossible to effect shipments owing to the attitude of the Government.

Cassia Fistula.—At auction a single case of West Indian sold at 192s. 6d, per cwt.

CASSIA- LIGNEA is easier, with spot sales of whole selected at 95s. per cwt. and broken at 72s. 6d.

CASTOR OIL.—Hull make of pharmaceutical quality is quoted at 114l., firsts at 111l. and seconds at 109l. per ton, barrels included, for prompt delivery ex mills Hull; seconds are for May delivery. Deliveries under one ton are 10s. per ton extra. 40-lb, tins packed two or four to the case are 101, per ton over the respective price in barrels.

CINNAMON is rather lower. Ceylon firsts on the spot offer at 28. 8d., seconds at 28. 6d., thirds at 28. 5d., and

chips at 8d. per lb. To arrive Ceylon assortment can be had at 2s. 2d. and chips at 8d. per lb. c.i.f.

CITRIC ACID is strong and dearer, a good business having been done at from 6s. 6d. to 6s. 9d. per lb. net,

the latter being the closing quotation on Wednesday. CLOVES.—Fair Zanzibar are quiet and easier, with spot sellers at 2s. 6½d. per lb. The London stock is 20,621 bales, compared with 10,214 bales a year ago.

COCAINE is quite steady and in fair demand (chiefly export) at 378. 6d. per oz. for hydrochloride, on the spot.

COCOA-BUTTER is steady, prime English offering at

2s. 11d. per lb.

Cod-Liver Oil is from 20s. to 30s. per barrel lower for prompt shipment from Norway, new medicinal oil being offered by agents at from 340s. to 350s. per barrel c.i.f., and new can be had in small lots on the spot at 380s. At the close, however, the market is reported firmer from Norway in consequence of stormy weather.

AALESUND, March 11.—During last week the fishing was hindered by rather stormy weather, and the catch was therefore not very satisfactory. Up to March 6 the catch, the output of cod-liver oil, and the quantity of livers for

natural oils were as follows:

5,600,000 cod, 9,157 heet. cod-liver oil, and 1,568 heet. liver against 3,771,000 , 5,176 , , , 1,060 , , , in 1919 2,912,000 , 3,290 , , , , 973 , , in 1918 5,047,000 ,, 8,661 , , , , 1,892 , , in 1917 12,200,000 , 16,604 , , , , , 2,108 , , , in 1916 ,, in 1918 ,, in 1917 in 1917 on the corresponding date. Market is quiet.

COPPER SULPHATE is easy at 501. per ton for either home or export.

CORIANDER-SEED continues in request at 22s. 6d. per cwt.

for fair sound Morocco.

CREAM OF TARTAR has had a sharp advance, and a good business has been done, including 99 to 100 per cent. powder in ton lots at from 300s. to 305s., the closing

quotations on Wednesday being from 305s. to 310s.

CRESYLIC ACID is scarce and firm, 97 to 99 per cent. pale offering at 4s. 3d. per gal. and 95 to 97 per cent.

dark at 4s.

Cumin-seed is in good demand with buyers at 478. 6d. and sellers at 50s. per cwt. for good sifted Morocco.

Dill-seed is slow of sale, and is being offered at 15s.

EPSOM SALT is comparatively scarce and firm, the value of druggists' quality being from 18s. 6d. to 19s. 6d. per cwt.

Eucalyptol.—Recrystallisible is quoted at from 58. 9d.

to 6s. 3d. per 1b. on the spot, as to seller.

FARINA is lower, Japanese No. 1 on the spot offering at 35s. per cwt., a decline of about 2s.; and for April-June shipment 35s. 6d. to 33s. 6d. c.i.f. has been paid. Sweet potato flour is 32s. to 33s. as to seller. Best Dutch farina can be had at 39s. 6d. and Danish at 37s. 6d. on the spot.

Fennel-seed is unchanged at 36s. 6d. per cwt. for good

East India.

FENUGREEK-SEED is dull at 14s. 6d. to 15s. per cwt. for fair Morocco.

GINGER is quiet, Jamaica offering at from 140s. to 150s. for medium to good, and 130s. for common. Cochin washed is 60s. to 62s. 6d. for very wormy; Sierra Leone is 70s. and Japanese 65s. per cwt.

HEXAMINE is firm at 17s. per lb. on the spot.

KOLA.—In Liverpool small sales of African quarters are

reported at  $5\frac{1}{2}d$ , and halves at 4d, per 1b.

LEAD COMPOUNDS.—In consequence of a further material drop in the price of raw material, another substantial lowering of values has taken place in lead compounds. The reduction made on Tuesday amounted to 2l. 10s. for white lead, the price of dry white being 68l. and that for lead in oil 801. 15s.; while red lead and litharge came down 31. 10s. a ton, prices in both cases being 651. 10s. for lots of over five tons and 67l. for quantities of less than five tons.

LINSEED GIL is easier, spot closing at 121s. per cwt. naked, and in Hull 113s. is quoted.

LITHIA CARBONATE is slightly easier at from 9s. 6d. to

10s. 6d. per lb. on the spot, as to seller.

LYCOPODIUM valued at 1,5007. has arrived in London

viá Japan.

Mace.—At auction 155 packages, West Indian chiefly, sold at cheaper rates for common. Good sold at 1s. 8d. to 1s. 9d., fair 1s. 5d. to 1s. 7d., ordinary 1s. 3d. to 1s. 5d., pickings at 1s. to 1s. 2d., and broken at 8d. to 10d.

MENTHOL is quiet, with spot sellers of Kobayashi-Suzuki at 69s. to 70s. per lb., at which small sales have been

made.

Mercurials.—As was anticipated, British makers of mercurials have advanced their prices by 3d. per lb. The 120s. per cwt.

following prices are quoted: Hyd. ammon., 8s. 6d.; hyd. oxid. rub., 8s. 11d.; hyd. perchlor., 7s. 8d.; hyd. sub-chlor. (calomel), 8s. 1d. per lb.

METHYL SALICYLATE is firm at 5s. 6d. per lb. in 1-cwt.

drums or in tins in cases.

Milk-sugar is about 5s. per cwt. cheaper, finest Dutch powder offering at from 210s. to 215s, per cwt., as to quantity.

NUTMEGS.—At auction 318 packages West Indian sold at and after the sale at a decline of from 2d. to 3d.

per lb.

OPIUM.—Business appears to be suspended in the primary markets owing to disturbances in the Interior, which have apparently interfered with communications, and in well-informed quarters it is definitely stated that complete stoppage of consignments from the Interior exists. In consequence, sellers on the spot (London) are less willing to dispose of their holdings, and prefer to wait developments. The quotations for Turkey druggists' is from 20s. to 21s. per lb. on the spot.

SMYRNA, March 8.—Very little business has been done this week, owing to the higher pretensions of holders. Buyers are offering 940 piasters per oke for "extra" Karahissar, and sellers are asking 10 piasters higher. The result is that only six cases changed hands. Very little stuff comes down from the growing districts, as will be noticed below in our arrivals, which are increased by only 16 cases this week. The exchange to-day stands at 405 piasters per pound starling for cheane and \$0.85 for one Turkish paper pound sterling for cheque and \$0.85 for one Turkish paper pound. The arrivals are 1,506 cases, against 175 at same date last year.

PARAFORMALDEHYDE is slightly easier at from 8s. to 8s. 6d. per lb. on the spot.

PARALDEHYDE is firm at from 6s. 6d. to 7s. per lb. on the spot.

Patchouli-leaves.—A consignment of twenty tons for distillation is offered on the spot at 140s, per cwt.

Pepper.—A further decline in black Singapore took place after the close of our last report, fair on spot selling at  $9\frac{3}{6}d$ , with a subsequent rally before the week closed to  $9\frac{5}{6}d$ . buyers, sellers asking  $9\frac{3}{4}d$ . This improvement, however, was not maintained, and on Wednesday  $9\frac{1}{4}d$ . was quoted. Sales of March-May shipment and May-June were made at  $9\frac{1}{2}d$ . to  $9\frac{1}{3}d$ . c.i.f. Lampong has been sold at from  $9\frac{1}{2}d$ . to  $9\frac{1}{3}d$ . Tellicherry is 1s., and Aleppy  $9\frac{3}{4}d$ . White pepper has also been quiet, sellers quoting Muntok at 1s.  $4\frac{1}{2}d$ . spot, and March-May shipment at 1s.  $4\frac{1}{2}d$ . 1s.  $4\frac{1}{4}d$ . per lb. c.i.f. Singapore is 1s.  $4\frac{1}{4}d$ . spot, and March-May shipment 1s. 4d. c.i.f. d.w.

PHENACETIN has been in brisk demand, and is now scarce at 19s, per lb. on the spot and about 18s. 6d. to arrive.

PHENAZONE is slow of sale, but quite firm at primary sources. Second-hands have been selling at from 34s. 6d.

per lb. upwards.

QUICKSILVER.—The market has stiffened constantly under a steady demand for home and export and a continuous scarcity, especially of the Spanish product, of which new arrivals are very slow in making their appear-The present limited supply would seem to consist chiefly of Italian quicksilver, of which a few fair-sized lots came to hand recently. Business, of course, is very restricted, and current quotations stand at 26l. 10s. to 27l. per bottle. This marks a new "record," which could hardly be expected to be maintained when a more normal supply becomes available. The New York market is reported very barc at the recent advance to fully \$90 per flask, while mail advices state that small lots already sold thereat early this month.

QUININE SULPHATE has been sold this week at 5s. 3d. per oz., and is on offer at that figure from second-hands.

Pimento is quiet, with spot sales at 6d. per lb.

PLATINUM has been reduced by about 250s, per oz. to 520s. to 530s.; scrap is from 260s. to 320s. lower at from 420s. to 480s. per oz.

RESORGIN is rather easier at from 45s. to 47s. 6d.

per lb. on the spot, and at 42s. 6d. forward.

SAL AMMONIAC has been advanced by 10s. per cwt. to 105s. for first lump and 100s. for seconds; ground is

SALICYLATES have a firmer tendency owing to the difficulty of obtaining raw materials (including caustic soda). Salicylic acid powder (B.P.) is quoted at 3s. 9d. to 3s. 10d. per lb., and small parcels at from 4s. to 4s. 3d. Sodium salicylate is 4s. 3d. to 4s. 6d. for powder and 6d, more for crystals.

SHELLAC has been quiet and lower, the spot price of usual standard TN Orange quality having declined to 780s. per cwt.; fine Grange is now 990s. to 1,000s., fine second Orange 920s., AC cakey 620s., and GAL 600s. Futures have been irregular, but at the close on Wednesday show a substantial advance, the sales including May delivery at 630s, to 690s, to 685s., and August at 560s, to 600s. To arrive, February-March shipment is quoted at 630s, and March-May at 570s, per cwt. c.i.f.

Soda Crystals appear to be obtainable in very small lots only, the London quotation in bags being 110s.

Soda Sulphate is in strong demand at 181. per ton f.o.b. in bulk for 95 to 97 per cent. (salt cake). Offers have been made at 17l., but the former price has been paid.

Sugar.—The wholesale prices were advanced by the Royal Commission on March 22: Cubes, etc., 12s.; granulated, 14s.; pieces (other than white), 8s. 3d. per cwt. The following is the revised scale of prices at which issues will be made to "direct" purchasers:

Class	For grocery. Wholesale per cwt. Discount 1; %	White vouchers Retail per lb.	For manufacturing. Coloured vouchers. Wholesale per cwt. Discount 1½%
1. Cubes, loaf, castor and tening 2. Granulated crystals, white pieces, &c 3. Grocery pieces 4. Low-grade pieces for manufacturing only	s. d. 84 0	d. 10 <u>1</u>	s. d. 118 0
	80 0 71 9	10 9	114 0 105 9
	_	_	"Free," no maximum price

The supplies to be issued for jam-making will cost 114s. per cwt. wholesale, less 14 per cent., and 1s. 2d. per lb. retail. The maximum "reasonable" price for licensed "free" sugar from March 22 until April 17 has been fixed at 114s. per cwt., less 14 per cont., duty paid ex store. Syrup and molasses will be sold by refiners at prices approved by the Commission. Vouchers for Period 3, starting on March 22, and continuing until further notice, should be fulfilled at the following rates: White, blue-green, and yellow 100 per cent. of face value; blue 200 per cent.; brown 300 per cent. The amount of sugar to be supplied to residents in catering establishments under Clause 19 of the Rationing Order will be 4 oz. per week, instead of 3 oz., as from March 22.

SULPHONAL can be had at the easier rate of 54s. per lb. SULPHUR.—Sicilian flowers offer at from 28l. to 29l. per ton and roll at 27l. per ton.

TARTARIC ACID.—The high prices asked do not appear to affect the demand, which is still brisk at from 4s. 1d. to 4s. 3d. per lb. for powder, and for crystals, which are excessively scarce, up to 48. 8d. has been paid. Quantities largely in excess of supplies are inquired for.

TONKA-BEANS have been slow of sale for a lengthy period; good Angosturas can be had at 7s. 6d., good frosted Para at 3s. 6d., and black at 3s. per lb.

TURMERIC is quiet, with sellers of fair Madras finger at from 47s. 6d. to 50s. per cwt., Cochin at 50s. to 52s. 6d., and split bulbs at 45s.

TURPENTINE.—The considerable set-back in especially for spot, the chief reason for which was already given in our previous issue, has kept new demands back, and forward deliveries have been also offering a little more freely at concessions. The spot price is now quite 25s. under the recent "record" figure of 250s. per cwt., closing at 225s. Distillers in America made good sales recently at prices ranging up to \$2.00. Paint and varnish manu-

facturers covered themselves freely on the rise up to that

Vanillin is slow of sale at about 81s. per lb. for spot parcels.

YOHIMBI-BARK .- A parcel of about four tons, containing 1 per cent. of alkaloids, is on offer at about 1s. 8d. per lb.

ZINC OXIDE.—Speculative disturbances in raw zinc, the price of which has been rather unexpectedly severely depressed, have upset equilibrium somewhat in all zinc products, and zinc oxide has been reduced by 5l. per ton by leading home makers. Current quotations are now given as follows: White seal, 99.9 per cent. ZnO, 75l.; green seal, 99.8 per cent., 70l.; and red seal, 99.7 per cent., 70l. a ton. There seems to be an idea that this lower range of prices will not prevail for very long, although the demand at the moment shows no special activity.

# Essential Oils Market.

THERE is comparatively little change to record in the general market situation. Business appears to be quieter on the whole, and will probably continue so until after the Easter holidays. Sicilian oils remain very irregular, and although the Italian exchange has gone considerably in favour of this country, buyers appear to have derived no advantage there-from. Bay is firmer; cinnamon leaf, thyme, and valcrian are from. Bay is firmer; cinnamon leaf, thyme, and valcrian are lower; caraway, bois de rose, and Japanese mint are cheaper. The manufacture of synthetics is still hampered on the Continent by lack of raw material, but there is evidence that difficulties in this direction will be overcome in the near future, and German makers appear to be making a bid to retrieve their lost position in this as in other industries. industries.

ANISE OIL, STAR, is quiet, the spot value of "Red Ship" brand being 5s. 5d. per lb.

BAY is offered in limited quantities, and is firmer at from 28s, to 32s, 6d. per lb. on the spot.

28s, to 32s, 6d, per lb. on the spot.

BERGAMOT is still very irregular and quoted at a wide range of priees—viz., from 36s. to 50s. per lb. c.i.f. for 38 to 39 l.a. Spot supplies are scarce at from 39s. to 45s. per lb., as to holder.

BOIS DE ROSE (FEMELLE) is offered on the spot at from 45s. to 56s. per lb. Supplies are still scarce, but further consignments are on the way, and 52s, 6d. to 55s. is quoted.

CARAWAY is in good demand, and, as a result of the fall in the Dutch exchange rate, is weaker; for crude 12s. 3d. per lb. is quoted on the spot, and rectified is offered at 13s. to 14s, per lb.

to 14s. per lb.

Cinnamon.—Ceylon leaf is quoted at 1s. 0½d. per oz. on

CITRONELLA.—A limited supply of Java is offered on the spot at 5s, 8d. per lb. The average price ranges somewhat higher—from 6s, 6d. to 6s, 3d. for spot supplies and 6s, to come forward. Ceylon is difficult to find, prices remaining steady at about 3s, 3d. to 3s, 5d.

CLOVE.—Finest English-distilled is quiet at from 21s, 6d.

to 22s. per lb.

COMANDER.—Foreign distillate is offered on the spot at prices varying from about 15s. to 22s. per oz., according to quality.

Geranium.—A limited quantity of Algerian and Bourbon can be obtained at 39s. 6d. to 40s. per lb. on the spot. For Bourbon quotations are steady at from 38s. to 40s. on the spot. Business has been done at the former price.

Jasmin is still very scarce, the semi-liquid natural product being quoted about 34s. per oz. on the spot from first hands and the liquid at 70s. per oz. on the spot.

Lemon is quict at from 10s. to 11s. per lb. on the spot; to arrive, from 11s. to 11s. 6d. ci.f. is quoted. Fairsized quantities continue to arrive from Sicily.

Lemongrass.—Cochin, is very firm at 1s. 4d. to 1s. 4½d. per oz.; 1s. 6d. has been quoted. The forward price is 1s. 4d. ci.f.

Lime.—West Indian, is quict, with second-hand sellers quoting 6s. 6d. to 7s. per lb. for distilled; 16s. to 17s. per lb. is asked for hand-pressed.

Mint Orl.—Japanese dementholised (Kobayashi-Suzuki) is quiet and easier, with spot sales at 14s. 6d. to 13s. 9d.

quiet and easier, with spot sales at 14s. 6d. to 13s. 9d. per Ib.

NEROLL.—For genuine French oil 45s, to 48s, per oz. is quoted to come forward. Stocks are said to be practically exhausted.

Orange still remains high. For Calabrian sweet on the spot 39s. to 40s., and at the source 50s. up to 55s. per lb. is quoted. For parcels affoat 40s. c.i.f. is asked; bitter is 35s. For West Indian 40s. per lb. is now asked on the spot and for forward delivery. Spanish is dearer on the spot at 28s. and redistilled at 34s. PALMAROSA, ex Bombay, is quoted at 24s. 8d. e.i.f. A limited supply on the spot is offered at 23s. 6d. to 24s. per lb. Sales have been made in Mincing Lane at from per lb. Sales have be 27s. to 27s. 6d. per lb.

PATCHOULI is searce, and spot supplies are offered from

85s. to 88s. per lb.

PEPPERMINT. - For Mitcham oil, prices quoted range from 110s. per lb. to 120s. per lb. on the spot, according to holder. For American in tins (so-called Wayne County) 47s. 6d. to 50s. per lb. on the spot is quoted, and H.G.H. is 72s. London terms. Italian rectified (from Mitcham plants) is 55s.

Petitgrain.—From 26s. 6d. to 29s. per lb. has been quoted on the spot for Paraguayan, but supplies are still scarce. The Queensland Transport has brought 20 cases Paraguayan

to London

PIMENTO is steady at 25s. on the spot. The Jamaiea Colonial report for 1918-1919 states that Pimento has been Colonial report for 1918-1919 states that Pimento has been in firm demand at improved prices. The manufacture of "oil of pimento" for use in England as a substitute for "oil of eloves" for the manufacture of artificial vanilla has been one of the minor industries of the war. The new species of "wild pimento" discovered by the Government botanist, and now named Anomis Jamaicensis, has been found to yield an essential oil quite distinct from either the oil of pimento or the oil of "bay rum." The commercial possibilities of this species of *Anomis* are still being investigated.

ROSEMARY.—Spanish is firm on the spot at 6s. 9d.
SANDALWOOD.—Between 50-100 kilos. of B.P. oil, distilled on the Continent from Mysore wood, is ready for shipment 48s. per lb.

SHIU is in fair supply, and is offered at 18s. pcr lb. in one direction.

SPIKE.—For French from 18s. to 20s. per lb. is quoted on

the spot. Spanish is firm at 15s.

THYME.—Spanish oils are lower in one direction. For 30 to 35 per cent. 11s. 3d, per lb. on the spot is quoted; 40 to 45 per cent. 13s. 9d. For white, 30 to 35 per cent.,

11s. 3d. is asked.

Tuberose.—The semi-liquid natural product is practically off the market until next crop arrives in October-November, and quotations for forward supplies are about 40s. per oz.

VALERIAN is lower on the spot at 28s, to 30s, per lb.
VIOLET. The oil of last year's crop, which is practically exhausted, is quoted on the spot at 44s, per oz

AMYL SALICYLATE is scaree at 10s. 6d. to 11s. per lb. on the spot. Forward quotations (April-May delivery) vary from 9s. to 10s. per lb. Aubepine ranges from 40s. to 50s. per lb. Benzil Acetate is higher at 14s. per lb. in one direction. Bromstyrol is quoted at 35s. per lb. Coumarin is offered on the spot at 32s. 6d. to 40s. per lb.; to arrive, 37s. 6d. c.i.f. α-Ionone has been sold this week at 100s. per lb. Owing to the high price and shortage of a and b Ionones it is stated that ionone residues are in demand for b Ionones it is stated that ionone residues are in demand for soap-making. These are offered on the spot at 12s. per lb. Hellotropein is firmer at 37s. 6d. to 38s. per lb. Hellotropein is firmer at 37s. 6d. to 38s. per lb. Linahool.—The 100-per-cent. product is practically unobtainable, but prices range from 42s. to 65s. per lb., according to percentage. Linahyl. Acetate is in short supply at 50s. per lb. Niusk (ketone) is offered at 120s. to 150s. per lb.; (xylol), with a melting-point 110°-112°, 45s. to 47s.; (ambrette) 300s. to 320s. per lb., all for forward delivery. Ambrette can be obtained on the spot at 300s. Negoli (artificial) is offered on the spot at 86s. per lb. Terpineol.—Arrivals of pre-war quality have taken place from the Continent, and are on offer at 7s. per lb. on the spot. b Ionones it is stated that ionone residues are in demand for

year will be 50 per eent, inferior to that of last year. The exportation of the fruit has strongly influenced this scarcity in the output of the oil, as also has the tact that the tack of rain caused the fruit to be small in size. The old stocks which for years were being carried over have been already absorbed, and it is calculated that tully half, of this year's crop has also been exported. On the other hand, inquiries are stronger than ever, and if they continue so they will soon exhaust what is still available. The holders do not show the least haste to sell, being certain that later on they will realize at much higher prices. It is now dangerous and in the output of the oil, as also has the fact that the lack realise at much higher prices. It is now dangerous and difficult to offer any quantity abroad without having first secured the merchandise, otherwise we would have to pay much higher than the prices contracted at. Concerning Bergamot Oil, the extraction of this year's yield is finished, and it is ascertained that the production was equal to that of former years on the average. However, inquiries from abroad have been so important that a good half of the crop has already been sold, while orders continue to the average of the results of the average. arrive, in spite of the exorbitant prices. This oil also remains in very strong hands, who only intend selling it at always higher prices. In less than a week these have risen by 40 per cent., and, notwithstanding this, spot prices have a tendency towards higher limits. The market has now reached such a level that we cannot encourage our friends to make their purchases for their yearly requirements, not because we have any faith in a possible decline, but with the hope that an eventual abstension may induce holders to be more reasonable.

# Spanish Essential Oils in U.S.A.

The "New York Drug and Chemical Markets" of March 3 states that Spanish essential oils, notably spike lavender, U.S.A. in increasing quantities; in fact, this branch of the essential-oil industry has already become of tremendous importance. It has been no secret that for many years a largo proportion of the spike lavender, thyme, and rose-mary oils sold there under other than Spanish labels, was actually of Spanish origin. The uniform quality of the French, English, or German branded goods and the guaran-tees and credit terms of certain well-known houses may tees and credit terms of certain well-known houses may have influenced trade and affected importations from Spain Conditions in the Spanish producing districts do not differ greatly from those in Bulgaria and parts of France or Italy, where the bulk of the oils is produced from small stills operated by peasants. Only sporadic efforts have been made in the cultivation of these crops, but the districts, which are very mountainous, afford great undeveloped opportunities. The business is now in the hands of several very influential Spanish companies. Already experiments opportunities. The business is now in the faints of several very influential Spanish companies. Already experiments are under way in the cultivation of plants for the distillation of other and important essential oils.

# Opium in the United States.

The extension of the time limit, when the recent ruling of the Treasury Department forbidding the exportation of all narcotics from the United States becomes effective, from February 19 until April 30 has (says "Drug and Chemical Markets") very probably averted actual ruin to holders of large opium stocks. Had the January 19 decision of the Department gone into effect on February 19 as per schedule, opium prices—even now at low ebb—would undoubtedly have broken to unprecedented levels. Bank loans secured by opium stocks might have been called, as has already been noted in some instances, but to sell the goods at the present time would have been well-nigh impossible except at ruinous prices. Heavy financial losses would have been The extension of the time limit, when the recent ruling of Arrivals of pre-war quality have taken place from the Continent, and are on offer at \$1s\$, per lb, on the spot.

Sicilian Essential Oils.

Messina, March 15.

The market for essential oils continues its ascending course. It seems that the requirements abroad have considerably increased, because, notwithstanding the heavy sels already effected and the high prices, inquiries continue to flock in from all sides, and to such an extent that exporters are obliged to be constantly on the market, which consequently tends to persist in its continuous tension and agitation, In face of the increased consumption, the production of this year has been exceptionally scarce, and this makes business difficult. To this we must also add the fact that the existing stocks are nearly all in strong hands, who can wait for a long time before realising. They sell only by small parcels and at the highest possible prices. Sweet Orange Oil can now be said to have disappeared from the market; there remain only a few thousand pounds until November next. There will be soon no quotation possible for this oil, and it will be no longer a question of price, but of whether the stuff can be found. The same considerations hold good for Mandarin Oil. As regards Lemon Oil, the crop of this future, is absolutely essential.

### Arrivals of Drugs, Chemicals, etc.

This section is now restricted to imports of direct interest to the Chemical and Drug trades.

The following products have arrived at the ports named:.

Låndon. (March 8 to March 22).

(March 8 to March 22).
Alcohol (Natal), 50 drms.
Chemical products, etc.: not
described, (Swc.) 11 cs.,
(Germ.) 21 brls.
Acctic acid (U.S.), 168 brls.
Argol, (Sp.) 4/8 bgs. 101 cks.
48 brls., (Sic.) 31 cks., (It.)
518 bgs. 581 pkgs. 187 cks.,
(Fr. 241 bgs.
Arsenic, (Jp.) 300 cks

Arsenic, (Jp.) 300 cks., (Hamb.) 527 cks. 100 crts. 67 brls.

Barytes, (Sp.) 2,000 bgs., (Antw.) 650 bgs. 13 pkgs.
Benzoie acid (Germ.), 293 cks.
Borie acid (It.), 342 brls.
Bromides: (N.Y.) 20 cs.; ammon., (Hamb.) 13 cs.
Calc. borate (U.S.), 3,857 sks.
Calc. eit. (Sic.), 251 cks.
Chloral hyd. (Hamb.), 45 cs.
Citrio acid, (Fr.) 100 cks., (Sic.) 22 cks.
Formaldehyde (Fr.), 256 cs.
Fruscl. oil (Sp.), 15 drms.
Hexamine (N.Y.) 23 cs. 22 pkgs.

mexamine (N.Y.) 23 cs. 22 pkgs.
Lactic acid (Hamb.), 24 cks.
Lead carh. (It.), 34 cks.
Mercury (Fr.), 150 pots
Methyl salicyl. (N.Y.), 65 cs.
Pot. caustic (Swe.), 20 cs.
Pot. ferrocy. (Swe.), 7 cks.
Pyrazalone (Fr.), 20 cs.
Pyrogallic acid (St. John, N.B.), 4 cs.
Quinine (E.I.), 5 cs.
Saltpetre (Cal.), 2,969 bgs.
Soda salts (Germ.), 10 cks.
Sod. benz. (N.Y.), 50 brls.
Sod. benz. (N.Y.), 50 brls.
Sod. benz. (N.Y.), 50 brls.
Sod. chlorate (Fr.), 200 cks.
Sod. nitr. (Chili), 22,112 bgs.
Sod. prov. (Norw.), 11 cs.
Sod. salicyl. (N.Y.), 33 pkgs.
40 cs.
Sod. uranate (Fr.), 20 cks.

40 cs.
Sod. uranate (Fr.), 20 cks.
Stann. oxide (N.Y.), 38 brls.
Stann. oxide (N.Y.), 38 brls.
Sulphur (Finl.), 657 bls.
Sulphur (Sic.), 1,600 bgs.
Tannic acid (St. John, N.B.),
45 brls.
Tartar, (Fr.) 1,455 bgs. 212
cks. 20 kgs. 95 cs. 81 brls.,
(1t.) 301 bgs., (Sic.) 36 cks.,
(Sp.) 87 brls. 23 cks. 206
bgs.

ie acid, (Fr.) 10 cks., 249 cks. 40 cs., (Sic.) (It.) 249 cks. 40 cs., (Sic.) 100 cks. Wine lees, (Fr.) 66 bgs., (Sp.)

284 bgs. ne oxide. (N.Y.) 928 brls.,

Zine Oxide, (N.Y.) 928 brls., (Antw.) 11 cks.

Drugs, crude: herbs (Fr.). 221 brls.; leaves, 12 bls., (N.Y.) 122 pkgs.; herbs. (Germ.) 143 pkgs., (Sp.) 20 bls.

Agar-agar, (Fr.) 22 bls., (Ju.) 12 bls.

Agar-Agar, (Fr.) 22 bis., (Ju.) 12 bis. Area (Cey.), 133 bgs. Calumba, (Cey.) 20 bgs., (E. Af.) 1,461 bgs. Camphor, (Jp.) 100 cs., (Ch.) 510 cs.

510 es. Cardamóms, (Cey.) 27 es., (E.

Cardamoms, (Cey.) 27 es., (E. Af.) 110 es. Cascara (Fr.), 50 bgs. Chamomiles (Belg.), 20 bls. Cinchona (Cey.), 26 bls. Galls, (Ch.) 375 es., (Smyr.) 19 brs.

Gentian (Fr.), 25 bls. Horse-radish (Hamb.), 22 bls. Insect flowers (Trieste), 50 hla

Insect pdr. (Trieste), 50 cs. Ipccacuanha (S. Amer.), 42

Jalap (Hamb.), 26 bgs. Juniper berries (Trieste), 100

Vaurel leaves (It.), 50 bls. Liquoriee paste, (Smyr.), 400 es., (It.) 92 cs.

es., (It.) 92 cs. Liquorice powder (Fr.), 20 bls.

Liquorice root, (Smyr.) 28 cs., (sic.) 156 cs. 35 bis., (1t.) 50 cs.

50 cs.
Lycopodium (Jp.), 30 bgs.
Menthol (dp.), 200 cs.
Opium (Smyr.), 95 cs.
Orris (tt.), 107 bls. 40 sks.
Sarsaparilla (U.S.), 6 bls.
Senna (Egypt), 23 bls.
Squill (Sic.), 8 bls.
Stavesacre (Trieste), 10 bgs.
Styrax (Smyr.), 5 brls.
Tamarinds (E.I.), 124 pkgs.
175 cks.

Styrax (Smyr.), 5 brls.

Tamarinds (E.I.), 124 pkgs.
175 cks.

Guns, resins, ctc.: (Tky.) 15
cs., (Antw.) 378 bgs.; acacia
(Egypt), 10,128 bgs.; copal,
(Antw.) 90 bgs. 579 pkgs.,
(E. Af.) 81 bgs. 10 bxs.;
gambier (Fr.) bl3 cs.; lac
(Cal.): button, 100 cs. 310
chts.; garnet, 100 bgs.; sbell,
1,550 bgs. 300 chts. 483
pkgs.; mastic (Smyr.), 25 cs.;
rcsin, (Fr.) 1,056 cks., (Swc.)
60 brls., (U.S.) 1,600 brls.
0ils, essential: not described,
(Fr.), 7 drns. 32 cs., (N.Y.)
47 pkgs., (Sp.) 16 drms.,
(Sic.) 51 pkgs.; bergamot
(Sic.), 30 × ½ cs.; cananga
(Jp.), 19 cs.; geranium (Fr.),
65 cs. 32 pkgs.; lemon (Sic.),
1,025 pkgs., 30 × ½ cs.; cananga
(Jp.), 19 cs.; geranium (Fr.),
65 cs. 32 pkgs.; lemon (Sic.),
1,025 pkgs., 30 × ½ cs.; 150
x ½ cs.; petitgrain (S.
(Amer.), 20 cs.; orange (Sic.),
12 × ½ cs.; rose (Smyr.), 1
cs.; turpentine, (Swc.) 126
cks. 31 brls., (U.S.) 13 drms.,
(Fr.) 100 cks. 4 drms., (Port.)
1,051 cs., (Finl.) 40 brls.
Quicksilver, (Genoa) 150 bots.,
(Tricste) 1,000 bots., (Fr.) 200
bots.

bots.
Spices: Capsicums (E. Af.), 92 bices: Capsicums (E. Af.), 92 bgs.; cinnamon, (Cev.) 331 bls., (Antw.) 107 bls., (Norw.) 150 bls.; cloves, (Natal) 69 bdls., (Zan.) 1,215 bls.; mace (E. Af.), 312 bls.; pepper, (S'pore) 587 bgs. 323 cs., (Fr.) 762 bgs., (E. Af.) 2,280 bgs.

(Fr.) 702 bgs., (E. 11.) 2,260 bgs.
Vanilla (Fr.), 51 cs.
Vascline (N.Y.), 1,426 cs.
Waxes: bees', (Moroc.) 103 bgs.,
(Ht.) 15 bgs., (E. Af.) 1,709 bgs.; paraffin, (U.S.) 1,368 bgs. 9,852 brls., (Germ.) 306 brls., (Antw.) 100 bgs.,
(E.I.) 800 bgs. 2,000 brls.

#### Liver, pool

(March 8 to March 20).

Bismuth orc (Aust.), 11 tons.
Chemical products, etc.:
Argol (It.), 69 eks.
Barytes, (It.) 1,399 bgs.,
(Antw.) 170 bgs.
Beta-naphthol (N.Y.), 5 brls.
Pot. nit. (Antw.), 100 bgs.
Saccharin (N.Y.), 22 es.
Sod. formate (Fr.), 27 es.
Sod. nitrate (Chile), 75,159 bgs.
Sulphur (Sic.), 2,700 bgs.
Tartar, (Sic.) 14 eks., (Fr.) 100 eks., (Sp.) 100 brls.
Tartarie acid (It.), 40 brls.
Zinc oxide (Antw.), 40 brls.
Drugs, crude, etc.: (N.Y.) 86 (March 8 to March 20).

Drugs, crude, etc.: (N.Y.) 86
pkgs.
Areca (Cey.), 100 bgs.
Balsams (Cristobal). 10 cs.
Cardamoms (E.I.), 15 cs.
Cinchona (S. Amer.), 36 bls.
Copaiba (Maranham), 3 brls.
Galls (Tky.), 134 bgs.
Gentian (Fr.), 8 bls.
Insect pdr. (Hamb.), 20 cs.
Jaborandi (Maranham), 89 bls.
Juniper berries (Fr.), 5 cs.
Liquorice root, (It.) 10 bgs.,
(Sic.) 20 bgs., (Fr.) 5 bls.
Liquorice juice (It.) 50 cs.
Manna (Sic.), 5 cs.
Olibanum (B'bay), 140 cs.
Opium (Constan.), 93 cs.

Sarsaparilla, (N.Y.) 41 bls., (C1:stobal) 16 pkgs.

Turmeric (B'bay), 100 bgs.

Gums, resins, etc.: not described (Tky.), 27 bgs.; acacia (P. Sudan), 1,450 bgs.; copal, (Antw.) 1,521 pkgs.
1,098 bgs., (Zan.) 20 cs.; mastic (Trieste), 72 cs.; resin (Fr.), 100 cks.

Honey (S. Amer.), 341 brls.
1singlass (S. Amer.), 35 brls.
0ils, essential: not described, (Sic.) 30 × ½ cs. 32 cs., (Fr.)
2 drms.; hergamot (Sic.), 43 × ½ cs.: eucalyptus (Anst.), 412 cs.; lemon (Sic.), 100 ×  $\times$  ½ cs.; eucalyptus (Aust.), 412 cs.; lemon (Sic.), 100  $\times$ d cs.

\$\frac{1}{2}\$ cs.
Spices: cloves, (Zan.) 1,736 bls.
4 bxs., (stems) 3,819 bls.
Waxes: not described, (Ceara)
236 bgs., (W. Af.) 11 bls., (E.
Af.) 219 loads; carnauba (S.
Am.) 979 bgs.; paraffin,
(U.S.) 1,326 brls. 172 cs.,
(scale) 300 brls.

Manchester (March 6 to March 19). Acetic acid (N.Y.), 669 brls.; argol (It.), 87 cks.; emetic, tartar (N.Y.), 40 kgs.; formaldehyde (N.Y.), 180 brls,; juniper berries (It.), 5 bgs.; laurel berries (It.), 5 bgs.; lemon oil (Sic.), 16 cs.; liquorice juice (Sic.), 21 es.; liquorice root (Sic.), 25 brls.; naphthol (N.Y.), 26 brls.; paraldehyde (St. John), 16 cs.; phthalic anhyd. (N.Y.), 20 brls.; pot. pruss. (Antw.), 276 bgs. 16 cks.; sulphur (Sic.), 2,000 bgs.; tannic acid (N.Y.), 10 cs.; tartar (Fr.), 17 cks. 65 cs.; waxes, bees (It.), 6 bls.; paraffin (U.S.), 535 brls. 3,670 bgs.; zine ox. (Antw.), 40 cks. 200 pkgs.

Hull(March 16 to March 18). Cod-liver oil (Norw.), 788 brls-156 eks.; nitrate (Fr.), 53 eks.; potash salts (Hamb.), 33 brls.; tartarie acid (It.), 146 cks.

Goole (March 9). Chemicals (Hamb.), 10 cs.; herbs (Hamb.), 15 bgs. 1 cs.; thorium nit. (Hamb.), 100 cs.

# The Dutch Transport Strike.

There are prospects of an arrangement by arbitration that will end the deadlock between the Netherlands Transport Workers' Union and the shipowners. Several meetings have been held in Amsterdam and Rotterdam, and the natter has also come before Parliament without any definite natter has also come before Parliament without any definite result up to now. Some of the owners have announced their intention to amalgamate with a view to reducing the amount of labour required. Transport workers have protested against the introduction of other branches of labour to what, previous to the strike, was their particular sphere. In the Rotterdam harbour, French naval ratings have been bunkering their own coal, and students have also expressed the desire to assist at the distribution of foodstuffs and other urgently wanted material.

#### Jamaica Honey.

Honey achieved a remarkable record in Jamaiea during the years 1918-19, owing to the demand for the United Kingdom. The figures show that 1,175 tons were exported during the financial year ended March 31, 1919, valued at 154,700%. Owing to the transhipment of infected honey from Cuba in the Port of Kingston, the disease known as "American foul brood" unfortunately gained an entrance into Jamaica through the access of local bees to the Cuban honey in the port. Fortunately, this contingency had been foreseen, and an area of approximately three miles in forescen, and an area of approximately three miles in diameter, having been declared under Law 9 of 1918, and kept under systematic inspection, the first cases of the disease were speedily detected. As the disease was spreading rapidly it was decided to destroy all hives of bees in the declared area, and this was done on January 16 and 17, 1919. The sum of 3,800*l*. was provided for compensation and eosts of this treatment. To date the reports received indicato the complete success of these operations.

#### Indian Casein Manufacture.

War demands led to an investigation of easein manufae-War demands led to an investigation of easem manufacture in India. The present position is that a large sample of sulphuric casein prepared by Dr. Meldrum has been sent to the United Kingdom for a report, and correspondence is also taking place with the Indian Trade Commissioner in London regarding technical and other assistance which may be expected from certain sources. Casein is not a new judgature in the Republic Presidence but it seems graphle industry in the Bombay Presidency, but it seems capable of technical improvement and expansion, and two or three firms of standing are interested in its possibilities. As in the case of vegetable oils, market difficulties may ultimately prove more formidable than technical problems. The present market cannot be maintained, and when old sources of supply are fully reopened the position may be very different. Prior to the war one enterprising Indian studied the industry carefully in England, Europe, and America, but the market collapsed for a considerable period, so that no amount of technical skill could, at the time, establish the industry on a paying basis in India. The technical lists of continuous to the continuous paying basis in India. of casein are, however, now rapidly increasing, and likely to absorb an increased output. Dr. Meldrum is also experimenting on the production of casein from separated milk by the method employed in Franco of using an electric current. He has also made preliminary experiments in the manufacture of galalith.



# The Closing Hour for Chemists.

SIR,—I wrote to the secretary of the Early Closing Association, pointing out that the Pharmaceutical Society and the Insurance Committees have agreed to regard 8 P.M. as the normal closing hour for chemists, except under special circumstances. I also asked whether as many chemists had for some time adopted seven as their closing hour, whilst providing an efficient service by means of a rota, the Association would oppose the retrogade agreement to fix 8 P.M. as the closing time. The reply is enclosed. I hope chemists will assist by applying the necessary pressure to the Pharmaceutical Society to prevent the recognition of 8 P.M. closing.

Yours faithfully,

SENEX. (13/3.)

The letter from the secretary of the Early Closing Association is as follows:

I am interested in the papers you sent, and which I am herewith returning. There has, unfortunately, always been a conflict between the National Health Insurance and the Early Closing question, and it is an open question as to whether chemists are not bound to follow the rules of the Health Insurance Act rather than that of the Shops Act. This matter, however, should be thoroughly fought out at your Pharmaceutical Society, which is now well organised and has branches in several parts. In any case, some latitude must be shown in cases of emergency, and it seems to be that until this question is settled it would be well for each district to do its best in regard to early closing in conformity with the requirements of the public.

#### Timing Insurance Dispensing.

SIR,-I am afraid there is a lot of truth in Mr. Corbett Meyrick's remarks as to the dispensing conditions for panel scripts (C. & D., March 13, p. 74), but the small retail chemist is not by any means the worst or most trequent offender in this matter, in fact he more often pays better attention to such details in order to compete with the stores and show a better service. Even then the panel chemist does not put lotion and liniments into tablespoon-bottles, as they are sometimes handed out from surgeries and dispensaries. As to the "while-you-wait' dispensing, this is forced on the pharmacist by the conditions of the panel, and is not at all to his liking. In private dispensing businesses the prescriptions, as a rule, are cleared up at dinner-time, tea-time, and in the evening, and despatched by messenger, only urgent ones being done at once; but the terms of payment do not admit the sending of medicine under the panel, and, therefore, the patients have to fetch their own. Now, owing to the nature of the benefits, the patients are nearly all workingpeople, and they have no time to spare to come backwards forwards, and, also, it is extremely rare for a doctor to be at his surgery at the advertised hour, so that a customer who has already spent an hour or so waiting for his prescription is in no humour to wait another hour for the bottle, and this leads to the demand for medicine on the spot. To avoid the constant argument and explanation that would arise over the counter, the chemist has perhaps foolishly tried to meet that demand. Then, again, we must remember that in the old days of club practice the patient got his advice and medicine at the same place and time, the use of stock mixtures avoiding a wait; and in many cases even now he strongly objects to having to walk from the surgery to the pharmacy, with further delay when he gets there. On the other hand, if a dispensing counter is well organised, with all the usual drugs and utensils close to hand, solutions made, back scripts sorted out and filed, so that the dispenser has not to walk about and waste time, there is no reason why scripts should not be turned out decently and cleanly

in a quarter of an hour at most, except, of course, pills and suppositories, etc., to be made specially. With regard to the man who is actually singlehanded, at the risk of any criticism I hold strongly that he should not do Insurance work, as he certainly cannot do it properly, if he has any number to deal with, and attend to his ordinary trade as well; and in just the same way I think it a mistake for a singlehanded doctor to do both panel and private work, as the contract patient is sure to be neglected for the paying one.

Yours truly, CHAS. HAMUS. (42/9.)

Sir,—"Xrayser II." admits that a chemist can only do one thing at a time, from which I gather that he has quietly withdrawn his argument as to driving four horses Also he has not advanced one single fact or figure in support of his charges of exaggeration. remark that each department of a business must bear a share of the expenses is not to the point, as I have said nothing to the contrary. My contention throughout has been that the allowance for overhead expenses in a singlehanded chemist's business must be strictly proportionate to the total time required for the dispensing—if one hour's dispensing, then one hour's expenses, and so on. If the whole day is spent in dispensing, then the whole day's expenses must be allowed. The fact that "Xrayser II." does not know of a chemist doing nothing else but Insurance dispensing does not in the least detract from the soundness of my argument. And the net salary, viz. 1s. 01d. per hour, would be the same, whether one hour or the whole day were spent in dispensing. I agree with Mr. Meyrick that there is a good deal of indifferent dispensing done, such as he describes. On the other hand, I believe that the majority of chemists turn out the work with a very fair degree of neatness. Because they have not the time, or have not taken the trouble to go into the matter thoroughly, they think that the work pays them. It was to help such better to appreciate the value and extent of their own work that I wrote my article. Referring to a recent report as to certain chemists being cautioned for "slight deficiencies or excesses" in dispensing, if the prescriptions concerned were on Insurance forms the discrepancies probably arose either from the use of "stock" mixtures or from the medicines being put into inaccurate containers. While strict accuracy is most important, it is very unjust for the Government to allow chemists five minutes for eleven minutes' average work, and then to turn round on them, through an official analyst, and accuse them of "slight" errors. Incidentally, it would be just all round if the taking of samples were extended, and inspectors be given authority to take samples from hospitals, dispensaries, and doctors' surgeries.

Yours faithfully.

Dover. W. H. Harris.

Proposed Dental Legislation.

Sir,—Kindly allow me to make the following proposal through the medium of your esteemed journal—that a special open meeting of dental chemists be called during the Chemists' Exhibition week to consider the following: (1) The time-limit proposal to be applied to dental chemists continuing to practise dentistry and pharmacy together: (2) to take steps that chemists or their assistants who have been practising dental surgery for less than five years prior to February 1918 should be admitted to the Dental Register, as similar persons or their assistants who are not chemists and druggists are recommended to be enrolled on the new Dental Register, that is by passing a simple examination in the necessary subjects within two years of the passing of the Act. This meeting should be open to all dental chemists whether they are members of dental societies or not.

RURAL DENTAL CHEMIST. (23/3).

#### Dr. McWalter's Warning.

Sir,—Dr. McWalter's notice of motion at the Council meeting of the Pharmaceutical Society of Ireland (C. & D., March 20, p. 65), regarding the indiscriminate use of the words "chemist" and "druggist," is quite to the point, and the subject requires immediate attention. In my own town a druggist freely uses the title "chemist" on his

labels, with the result that the average person believes him to be a "qualified" chemist; and I can prove prescriptions are brought there owing to the use of the word "chemist." I shall be pleased to give 5l. or 10l. to any fund started to safeguard the title for qualified chemists.

QUALIFIED.

# Smart Wholesalers.

SIR,—I thought the following might prove interesting as a unique thing in these days of delay. On Tuesday night, March 16, I posted an order at 7.30 P.M. to Randall & Son, Ltd., Southampton, for a large hamper of assorted drugs. This was delivered at my shop on Wednesday, March 17, at 4.30 P.M. When one considers that this hamper had to be packed (including weighing and bottling drugs), then brought by water from Southampton to Newport, viâ Cowes, from there to Ryde, and that the order could not have been received until 8 A.M. and the whole proceedings only occupied eight and a-half hours, it is to my mind an extraordinary achievement.

Ryde, I.W.

Yours truly, TENISON SMITH.

#### Insurance Dispensing.

SIR,—The decision of the Sheffield Panel Committee to deduct the difference in the cost of Angiers' Emulsion and the cost of emulsion in the Tariff List from a practitioner's account (C. & D., March 6, p. 86) adds yet another to the complexities of Insurance pricing. This question of the supply of proprietary articles has been argued at great length, and panel chemists have been assured that under the present system they are to supply what the doctor orders, the onus being on the doctor. This certainly relieves the chemist as to his pecuniary liability, but it is evident that proprietary articles are not really allowed, or else why penalise the doctor if he thinks the preparation necessary? It would be interesting to know if other Insurance Committees act on the same principle. Yours faithfully

PROPRIETOR. (68/82.)

# Wanted, a Price-list Censor.

SIR,—The price-list discrepancies notified in "The Script," and referred to in the C. A D. of March 6, go further to prove the urgent need for something in the nature of a national price list, the compilation of which should be in the hands of a capable business chemist under the supervision of an executive council. Wages and hours will very soon be legally controlled, and it behoves us to see to it that prices are levelled up to a figure which will maintain a just and profitable remuneration for the training and expenditure of time and money we have undergone in order to qualify. There is not a list published but shows some glaring inconsistencies, yet we must not blame those who compile these lists; rather should we extend through your pages the thanks of pharmacy at large to the men who in their spare time, and often ill-spared time, devote their energies to helping their confreres in business. Just think of the hopeless confusion had no public-spirited chemists taken this matter up. Let us not grouse too much, then, but direct our energies, as your leaderette indicates, to establishing a more efficient and co-ordinated effort. A national list with local association modifications would seem the feasi-ble way. The national list, of course, in every case to Yours truly, be the minimum. Scotus. (9/3.)

Homeopathy.

SIR,—The discussion on homeopathy and the correspond ence on unusual doses furnish an interesting commentary on the perversity of human life. On the one side we have the claim that ailments are cured best by infinitesimal doses, and, on the other, practitioners prescribe overdoses to obtain the same effect; really, it leads one to become cynical and to wonder if the patient would not do as well without any dosing at all. When dealing with such drugs as purgatives, which exercise a definite local action, the cause and effect are, of course, obvious; but when treating obscure complaints, such as nervous diseases, internal troubles, or some forms of skin ailments, where the patient goes on month after month

taking the same, or a series of, medicaments without any beneficial results, it is questionable whether they are of any real use, or whether it is that our medical knowledge is groping blindly in the dark, and is on the wrong track altogether in such cases.

Yours faithfully,

CYNIC. (63/2.)

#### Chemists' Profits.

Sir,—Your correspondent "Argon" (C. & D., March 20, p. 74) points out a state of affairs that exists  $i_{\rm H}$  more than one pharmacy when he instances the prewar price of a mixture (1s. 3d.) being still charged to-day although the ingredients now cost 2s. 2d. The price is originally marked in the prescript on-book or on the script itself, and is charged for every repeat without referring to an up-to-date price list, and consequently if the eustomer goes to another chemist who prices up the ingredients at present cost, he naturally thinks it is a case of profiteering. All old prescriptions should in these times be priced up again when repeated; why, if we were to work on proper business lines, according to the published estimates of overhead charges, wages, etc., these alone would come to more than the 1s. 3d. charged for the mixture, without the drugs and bottle. If you employed a carpenter or plumber he would take the cost of materials used and the time taken by his men, charge them at a profit, and then put his total profit on for the whole job, and there is no reason why chemists should not do the same, except, as "Argon" says, there is probably not a town in the country where the chemists would all agree to do it. I have had some experience in trying to achieve local uniformity in prices, and there is always the odd man who will not fall into line, or, worse still, who agrees to a standard figure and then charges a penny or two lower regularly. I should like to know how those associations who have arranged a private mark for prescriptions find the arrangement works in practice. This lack of cohesion among retailers is the cause of all their troubles, and they should take a lesson from the wholesalers, who work in such perfect agreement that they make their advances collectively on the same date, as, for instance, the  $1\frac{1}{2}$  per cent. surcharge, and when a large number of protests are registered they carefully drop the surcharge, again all at the same moment, and add an amount to each item which, according to the table in "J. T. W.'s" letter, is nearer 3 per cent, than 1½ per cent, but is not so noticeable until worked out as the original surcharge, which showed prominently at the foot of the invoice. On one point I should like to have "Argon's" opinion: how would be deal, in the event of union among chemists, with the stores which run a drug department more or less as an advertisement, and deliberately cut all prices, dispensing and otherwise, with that idea?

Yours fathfully, S. NAGRO. (20/3.)

# Hss. for Eight Ounces.

SIR.—In regard to Mr. Walker's letter (C. & D., March 13, p. 76) as to what is meant by "Hss.," I think your critic has not got it right. My idea is that it is nothing more nor less than the lb. =1.bra = pound = 16 oz., which of water weighs 16 oz. and measures 16 fluid ounces; hence the old rhyme, "A pint of water Weighs a pound and a quarter." The sign may have become altered somewhat by the "H" sign and the old-fashioned "S"=[, but it used to be much used. I enclose a prescription which Yours, etc., TIDLEY. shows the use of the sign.

SIR,-I think it very probable that the last few lines of Xrayser II.'s note on this subject settles the question. My old-fashioned doctor was a very legible writer and certainly wrote Hss, and probably had always done so. Nevertheless, Hss might be a corruption of lbss all the same. If lbss is written quickly several times, especially if the "1" is represented by a plain stroke, it will be seen to be quite easy for it to drift into Hss. It is quite possible that this is the origin of Hss and that it has nothing at all to do with hemina.

Yours faithfully, M. P. WALKER. Peterborough.

# Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

### Appreciations.

As a reader and subscriber to the C. & D. for forty years please accept my congratulations and thanks for the great practical assistance you have rendered.—O. A. C. (145/26).

I have just had about four and three-quarter years in the Army, but on return to the old business I am very pleased to see that the C. & D. is still as vigorous and outspoken as ever, and as an all-round trade journal cannot be touched in my humble estimation. Expenses are heavy now, and I am compelled to drop one journal—but not the C. & D.—B. I. C. (74/9).

# Restoring Discoloured Turpentine.

Rusticus (19/3) writes: I am greatly indebted to the correspondent who sent to The Chemist and Druggist the "tip" for restoring discoloured turpentine. I had a 6-gal. drum that was hopelessly discoloured; but, with the aid of soda carb. and ac. sulph., I have been able to restore it and sell at best price.

### Marking Eggs.

C. H. (198/39) writes: "Can you inform me of any substance which is invisible to the eye when applied on an egg-shell, but upon boiling in water the writing appears? I want to mark some eggs in this manner—indelible pencil would be the very thing, but unfortunately the writing is visible from the first. The compound, I think, would be of a gummy nature, and a dye or ink of some description."

# Swede Turnip Cough Cure.

Your little note about the cough mixture made from swede turnips (C. & D., March 6, p. 78) reminds me that when I was a boy at home every winter there was a permanent supply of cough mixture on tap made from swede turnips. It was jolly good stuff, and rarely failed to cure a youngster's cough. Best of all, it was nice to take, and there was no trouble in getting us to drink freely of it. It was made very easily. You chose a sound turnip free from frost, cut it into slices about an inch thick, spread them out on an open dish, and covered them with sugar, Demerara for choice. The slices were left for a day or two with just an occasional turn, and then the syrup which formed was strained off and drunk freely when required. I have sold many things with a clear conscience since those days which were less efficacious.—

H. M. T. (8/3).

"Tabloid" "tableaued"!

What's in a name?

Did Cæsar live a life so tame

That one dare ask "Which Cæsar's fame

Is greatest?"

Can Nelson die?

In memory long His daring lasts, nor dies in song; His "Call to Duty" still inflames The nation's heart, the hero's veins!

Did Shakespeare shed his light

His famous talents ope the sight
Of reason still!
Shakespeare survives to blight the wight
His place would fill!

'Tis by a name
We thread th' events of life:
Exploit a play—entrance a wife;
Hit on the surest business-getter.
"Aspire in' creed "B.P. or better."

A. E. W.

# Legal Queries.

- W. H. H. (19/3).—Infants' foods do not come within the exemption under the Shops Act or the Defence of the Realm Act Regulation by which chemists may, sell after hours "medicine or medical or surgical appliances."
- J. B. L. (72/8).—The Revenue authorities informed us in 1880 that they do not interfere with chemists and druggists who sell rectified spirits in quantities not exceeding 8 oz. at a time to medical and scientific gentlemen. No statement to the contrary has since been issued.
- P. L. M. (16/3) acted as manager for a limited company, and entered into an agreement with them which has not been stamped. One clause in the agreement provides that "P. L. M." shall not on his own account, or as an employé, engage in the trade of a chemist, within a radius of two miles from any of the company's eight places of business, during a period of ten years atter leaving the company's service. Is the restriction legal? [The Courts enforce agreements of the nature in question provided they are (having regard to all the circumstances of the case) reasonable. The agreement can still be stamped by the company upon payment of a penalty. We think it is probable that the restriction referred to would be held by the Courts to be valid in the case of a manager.]
- J. S. (6/3) writes in reference to our replies to "A. F." (73/25) (C. & D., November 15, 1919, p. 76) and "H. S." (177/5) (C. & D., March 6, p. 99), and asks if we are not mistaken as to the liability to duty of the fruit syrups or cordials. These, he thinks, come under clause (b), and, therefore, ought to escape duty. [We believe that the replies given to our correspondents "A. F." and "H. S." are strictly correct. "J. S." appears to be under the impression that all preparations called or labelled fruit syrups or cordials are exempt from table-waters duty. That is not so. Only such preparations as are in fact so concentrated as to require dilution before they can be consumed come within the exemption. Whether that is so or not has to be settled in each case in which liability to duty is considered, and we have kept that in mind in giving our replies.]
- T.M. (12/3) bought his business in March 1915, but has only begun to have his books kept regularly from January 1, 1916. He sends us the balance sheets of the business and asks for what, if any, excess profits duty he is liable. [The particulars given are not sufficient to enable the liability to be ascertained. As it is a case of the succession to an already existing business, we should want to know what was the pre-war standard of profit. Then, again, no figures are given to show what was taken out of the business each year for the cost of living of "T. M." and family: that has to be included in the profits for income-tax and excess profits. If "T. M." is dissatisfied with the Inspector's charge upon him, and he will send us on the profit-and-loss accounts for the above years, as well as the amount of the pre-war profits made by his predecessor, we will tell him if the charge is justifiable.]
- F. J. (16/3) purchased a small swing sign from the makers about fifteen months ago at the price of 4l. 5s. The glass on one side of the sign was accidentally cracked a short time ago, and three letters were damaged. The makers have replaced the damaged glass and letters, for which they have sent in an account for 5l. 12s. 6d. "F. J." considers this charge excessive; what do we advise him to do. ["F. J." should tender to the makers whatever amount he is advised is a reasonable charge for the work. He should have expert advice; if possible, from persons who are prepared to give evidence in Court. If the makers decline to accept the amount tendered, and take legal preceedings against "F. J.," he should pay the sum into Court and resist the action. The Court will have to decide what is a reasonable charge for the work, and if the amount does not exceed that offered by "F. J." the verdict will be in his favour. We cannot express an opinion as to what the Court would regard as a reasonable charge.]

# Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

H. A. R. (16/3).—DESTROYING WORMS ON LAWNS.—The powder form of worm-destroyers is composed of mustard bran either alone or mixed with superphosphates.

V. E. H. (16/3).—PREPARATION OF ACETYLSALICYLATES. —The difficulty in preparing salts of acetylsalicylic acid is due to the hydrolysis that takes place if water is present. If the acid is suspended in an alcohol, ester, ether, acetone, hydrocarbon, carbon bisulph., or carbon tetrachloride or chloroform, or a mixture of any of them, and a solution of a caustic alkali be added to neutralisation, the salt separates. A sufficient quantity of ether may be added to complete precipitation. The following are further particulars of the various salts: Sodium acetyl-salicylate or hydropyrine. A solution of acetylsalicylic acid or suspension in methyl alcohol containing a little water is treated with the theoretical equivalent of sodium carbonate. Excess of ether is added, which precipitates the sodium salt. This is collected, drained, and dried at 40° C. The white salt thus obtained is hydroscopic and unstable. On contact with water it is rapidly hydrolysed into sodium salicylate or acetic acid. Lithium aeetyl-salicylate, "hydropyrine L," "Griffa," or "Apyrone," has been recommended as a substitute for the sodium salt. It is hygroscopie, difficult to prepare, and generally contains not less than 5 per cent. impurities; hydrolyses on contact with water, but less rapidly than sodium salt. Caleium acetylsalicylate is more stable than either of these, and is soluble in 1 in 20 of water. It is the best salt for use for cachets and tablets. Known under trade names "soluble aspirine," "Kalmopyrine," and "Solupyrine." Magnesium acetylsalicylate is easily obtained by agitating together calcined magnesia (4 grms.), acetylsalicylic acid (56 grms.), and water (189 grms.). Add methyl alcohol and precipitate with ether. Calcium salt is supposed not to cause pharyngeal or gastrie pain like free acid, and occasions less reual irritation while retaining all therapeutic properties. Potassium, zinc, copper, silver and mercury salts are prepared in a similar manner.

I. R. P. (201/55).—Cocoa Husk.—There used to be at one time a demand for cocoa husk as a cheap form of eocoa. It is still in demand, we believe, in Ireland. It is rather difficult to grind, but yields a drinkable beverage if infused as it is.

W. J. T. (19/3).—Felon Drink.—The powder used for felon depends for its efficacy upon an aperient such as magnesium sulphate or sodium sulphate. This should be flavoured with anise, caraway, and ginger. Where a mixture is required sodium hyposulphite (5ij. doses) and earbolic acid (10m. doses) are the active ingredients.

J. E. C. (22/3).—DISPENSING AS A CAREER FOR WOMEN seems to be overdone owing to the flood of apothecaries' assistants' certificates which have been issued. Our experience is that many of the holders are unable to find suitable outlets for their knowledge. The demand for x-ray operators is small, and there are plenty available who have acquired experience in radiography during the

J. B. (160/12).—Books on Precious Stones.—A. H. Church's "Precious Stones, considered in their Scientific and Artistic Relations" (Stationery Office, 1s. 6d.); L. Claremont's "Gem-cutters' Craft" (Geo. Bell & Sons); E. W. Streeter's "Precious Stones and Gems" (Geo. Bell & Sons); G. F. Williams's "Diamond Mines of South Africa" (Macmillan); M. Bauer's "Precious Stones" (Griffin & Co.).

R. J. G. (8/3).—There is no reason why quinine wine, properly stored, should not keep for ten years. What does it look like? If thick and containing a precipitate it is probably unfit for sale.

J. M. (204/12).—Black Beer.—The following is a working recipe for this beverage:

For 30 gals. of black beer take 8 oz. of quassia-chips and five to six dozen sprigs of horehound and boil for half an hour in 10 gals, of water; strain, and add  $1\frac{1}{2}$  pint of lime-juice and  $\frac{1}{2}$  lb. of liquoriee-juice (previously dissolved in water and strained). To the liquid add 10 lb. of brown sugar and water to make 30 gals. Let this stand for from three to four days in a tub with a loosely fitting lid. At the end of this period take out a gallon of the liquid, warm to the temperature of new milk, and add to it a pint of fresh yeast or the equivalent of German yeast. Let this stand in a warm place until it is in a state of active fermentation, then stir it into the remainder of the beer. This in turn is stirred twice a day for a couple of days, the yeast being skimmed off as it forms. When the fermentation subsides pass the beer through a filter-bag, return it to the cleaned tub, and add to it  $\frac{1}{2}$  oz. isinglass previously discolved in hot water, burnt sugar to colour, and capsiein to taste. Stir well, and leave for two days in the tub, which should be covered with a cloth and tightly fitting lid. At the end of this time the beer is ready for bottling, and is fit for use in about eight days.

The flavour can be varied by the use of vanilla, cassia, cinnamon, ginger, and lemon, each maker aiming to have some distinctive feature for his product. There is an aërated variety which is prepared by adding a certain quantity of a concentrated liquor to each bottle and filling up with aërated water, in the same way as lemonade is made. The black-beer liquor is made as follows:

Dissolve ½ lb. of liquorice-juice in a gallon of boiling water in which 4 oz. quassia-chips and ½ lb. of horehound-sprigs have previously been infused. Strain, press, filter, and clarify with isinglass, then add 4 ozcitric acid, 1 oz. of capsicin, and burnt sugar to colour. Now add sufficient brown sugar to convert the liquid into a thick syrup, which must be preserved in closely corked jars.

W. E. II. (8/3).—Candidates for the Qualifying examination of the Pharmaceutical Society can take both parts at the same examination, but if they fail in Part I. they may not proceed to Part II. If candidates pass in Part I. and fail in Part II, they are not now required to take Part I. again.

A. H.~B.~(51/11).—There is not, so far as we are aware, any diploma obtainable as a specialist in the manufacture of toilet preparations.

Qualified (12/3).—The address of the Civil Liabilities Department is Savoy Place, London, W.C., to whom you could apply for a grant. The other body is the War Anxiliary Benevolent Fund of the Pharmaceutical Society. which was subscribed by the chemists of the country to assist those who had been adversely affected through joining the Army or Navy.

# Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," March 15, 1870,

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Why do not country chemists sell coffee? They sell packet tea and have done a very good stroke of business in that commodity, and there is nothing intrinsically more wicked in dealing in coffee than in supplying tea. Of course the grocers would not like it, but we ought to think of our wives and families before our neighbours. Besides, we do not like their selling some of our most juicy fruits, but it is of no use to grumble. The fact is, if some respectable and enterprising firm will put up canisters of really good coffee, and supply it only through chemists, he will be surprised at the result. We have no hesitation in saying just the same about cocoa. The public has faith in the family chemist, a faith which is well-grounded we are glad to say, and though we should be sorry to see that faith in the least degree abused, we think the trade may certainly cultivate it by extending the reason for it.

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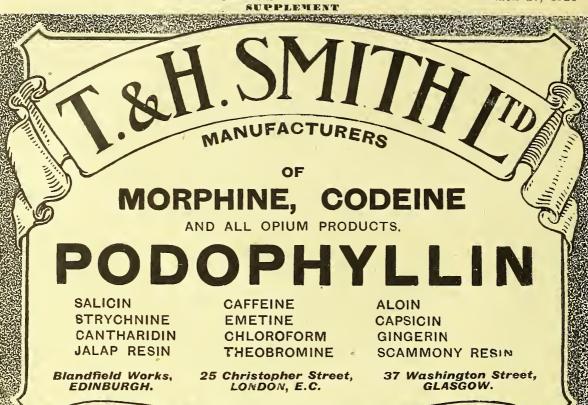
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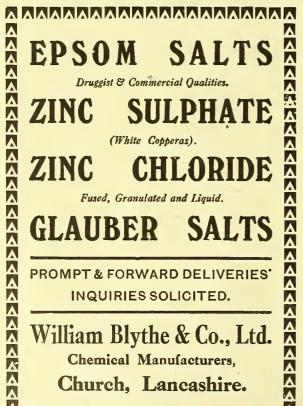
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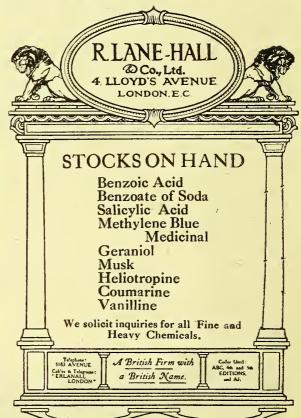
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2	11						2/3	20/3
2	,,						4/-	36/-
1	Liquid	Dia <sup>-</sup> Malt	***				· 2/3	20/3
2	2.2	.,		• • •			4/	36/-
3		799			• • •		7/-	63/-
1			and 15	% (b)	weig	ght)		
		Liver Oil					2/9	24/9
2	Ditto	ditto		•••	• • •	***	5 <b>/-</b>	45/-
3	Ditto	ditto					8/6	76/6
1		Dia-Malt	and 33	% (b)	y weig	glit)		
		Liver Oil	•••	***			3/-	27/-
2	Ditto	ditto					5/3	47/3
3	Ditto	ditto	٠		***		9/3	83/3
1	Taylor's	s Malted M	filk				1/3	11/3
2	11						2/3	20/3
3	• • • • • • • • • • • • • • • • • • • •	11					4/3	38/3
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1 2	,,	Pharmac	eutical	Mal	t Ext	ract	2/3	20/3
	,,	.,			11		4/-	36/-
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1	15	Pharmac	eutical	Malt	Extrac	et &		
		15 % (by	weigh	t) Cod	Liver	Oil	2/9	24/9
2		Ditto		di	tto		5/-	45/-
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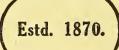
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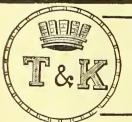
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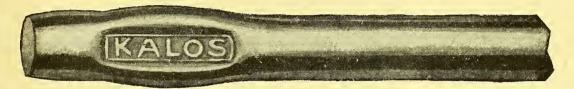
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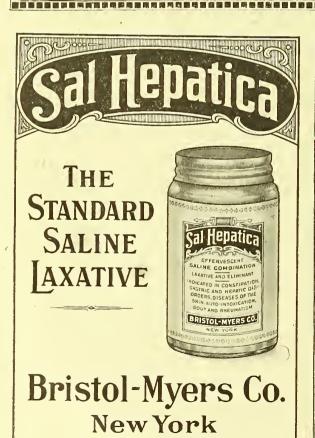
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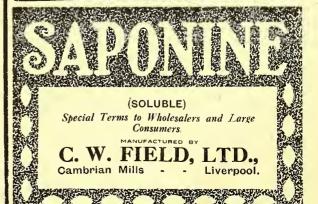
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For Hæmorrhoids, Rectitis, Anal Fistula, etc. Anti-hæmorrhagic, Sedative, De-congesting.

Price 5/- per box.

SOLVENT.

Rheumatism, Gout, Arterio-sclerosis, Stones, Gravel, Sciatica, Neuralgia and all Uric Acid disorders.

Price 5/- and 12/- per bottle.

### VAMIANINE

New Scientific Preparation for Chronic Skin Affections, Psoriasis, Eczema, Acne, etc.

Price 1 1/- per bottle.

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SCIENTIFIC PREPARATION OF LACTIC FERMENTS.

Indicated in Intestinal Disorders, Dysentery, Diarrhæa, Dyspepsia, Enteritis, Typhoid, Skin Eruptions, etc., etc. Price 5/- per bottle.

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### GYRALDOSE.

Antiseptic for local Gynæcological use. Price 4/- per box (powder)

### FILUDINE

SPECIFIC FOR THE LIVER.

Malaria, Diabetes, Cirrhosis, Sluggish Liver, Tuberculosis, etc.

Price 11/- per bottle.

Eppells

Pharmacists & Foreign Chemists, 164 Piccadilly, LONDON, W. 1.

Telegrams: "URODONAL LONDON." Telephone: Regent 192. AUSTRALIAN AGENT: Mr. BASIL KING, Malcolm Buildings, Sydney, N.S.W INDIA (SUB-AGENTS): G. ATHERTON & CO., 8 Clive Street, Calcutta.

Stocked by all Wholesalers.

Now being largely advertised.

Kay's Compound Essence of Linseed,

"LINSEED COM

(Regd. Trade Mark). For COUGHS and COLDS: On the P.A.T.A. List.

"KAY'S TIC PILLS." "MOUNTAIN FLAX PILLS"

Linum Catharticum (Regd. Trade Mark).

"COAGULINE"&"TENASITINE" CEMENTS.

"ORBITE"

Banding Material for Fruit Trees.

BIRDLIMES. RATLIMES, and FLYGUMS.

Sole Makers :-

KAY BROTHERS STOCKPORT.

### PURE COCOA-NUT

Packed in tins, 2" diam. 20 - per gross  $2\frac{3}{8}$ ", 28/-

 $2\frac{3}{4}$  diam. 48/-;  $3\frac{5}{8}$ , 66/-

### BORIC OINTMENT (Milled)

2'' diam. 16/-;  $2\frac{3}{8}''$  diam. 24/- per gross

ZING or SULPHUR OINTMENT (Milled)

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HALL FORSTER & CO., Ltd.

Manufacturing Chemists,

NEWCASTLE-ON-TYNE.

# GERMOLENE

The Aseptic Skin Dressing

AND

# GERMOLETS in Tablet Form for Blood and Skin Troubles.

Powerful and telling advertisements are appearing in the Press throughout the whole of Great Britain, Ireland, and the Channel Isles. To enable every Chemist to meet the demand, we make the following

# Special Offer

Orders for any quantity of Germolene and Germolets post free by return mail on best Window-Show terms, viz.:

 $2\frac{1}{2}\%$  Cash Discount, and 5% Window - Show allowance.

ADVERTISED AND SOLD AT FACE VALUE, 1/3 & 3/-Wholesale Prices: Small size, 12/5 per dozen; large size, 30/- per dozen. Cash or references required from new customers.

N.B.—This is a Special Offer, and is subject to acceptance in 7 days.

### SECURE STOCKS AT ONCE ON THESE ADVANTAGEOUS TERMS

Sole Manufacturers and Distributors-

DRUG CO., LTD. VENO

MANUFACTURING CHEMISTS.

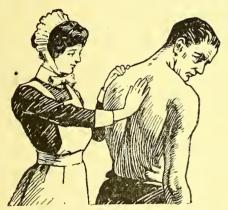
MANCHESTER, ENGLAND.

Telegrams: "SEAWEED MANCHESTER."

Telephone: 422 TRAFFORD PARK.

# It's ODSON" ODSON Now!

The Public are BUYING—
The Trade are SELLING—
We are PUSHING



The success of "ODDS ON" OILS as a "Seller" is astonishing our Retail friends. One Chemist writes of ODDS ON" as the BUY and BUY AGAIN Liniment. And it pays to push, as PRICES and PROFITS are PROTECTED. Vigorous and persistent National advertising is creating steady demands. Local and concentrated advertising is being done District by District. Satisfied users will visit you to purchase again and again—they will also buy other things—that is why we say "ODDS ON" is

"The Liniment Line to handle."

### **OUR WINDOW-SHOW BONUS OFFER**

has already been taken up by 800 Chemists—The proportion of repeat orders is remarkable. Write direct to-day for Terms (a postcard will do).

Supplies of "ODDS ON" OILS can be obtained of any Wholesaler or direct.

Inquiries invited from Colonial and Foreign Buying Agents.

"ODDS ON" SPECIFICS Co., Ltd., 36-37 COCK LANE, SNOW HILL, LONDON, E.C.

ODDS ON OILS THE PAIN KILLER.

P.A.T.A. 1/3, 3/and 8/-

## BRAND'S **ESSENCES** BEEF, MUTTON and CHICK

Possess great nutritive and restorative powers, being immediately digested and absorbed by #xomach. Although effective stimulants in physical and mental exhaustion, they contain no wine or other deleterious admixture.

BRAND & Co., Ltd., Mayfair works, vauxhall, London, s.w.

# LIQ. SANTAL FLAV. c.Buchu et cubeba

Packed for dispensing only, in 10, 22, 40 & 90 oz. bottles.

"Experience has shown this preparation to possess the same efficacy as Santal Oil itself. It mixes clear with water, and has a taste by no means disagreeable."

The Practitioner.

Of proved utility in Nervous Diseases, and a powerful Restorative for the Digestive Organs and Nervous System.

### A Valuable Tonic Food for Children.

"It is of high nutritive value enhanced by the presence of assimilable phosphates."—The Lancet.

### WHOLESALE PRICES.

No.	1.	15	OZ.	Tin	 9.'- p	er d <b>o</b> z
**	2.	31	79		 14/6 24/-	12
**	3.	$6\frac{1}{2}$	**		 24/-	**
	4.	12			42/-	

### MIST, PEPSINAE GO. c. BISMUTHO

(Hewlett's)

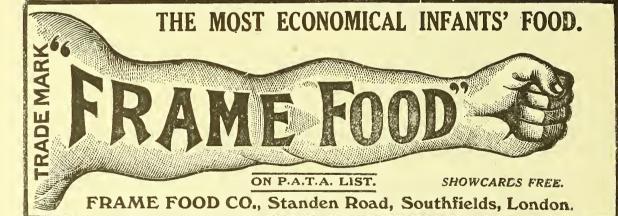
Packed for dispensing only, in 10, 22, 40 and 90 oz. bottles.

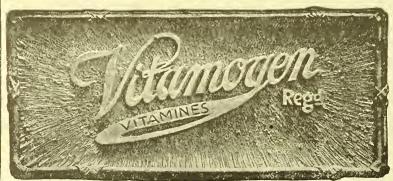
"Obviously likely to be of much advantage in the frequent cases of irritative dyspepsia, with atony cf gastric or intestinal muscular layers."

British Medical Journal.



Introduced and Prepared only by C. J. HEWLETT & SON, Ltd., Wholesale Druggists, 35-42 Charlotte St., London, E.C. 2.





ITAMOGEN contains the essential Vitamines in an active and concentrated form. VITAMOGEN is in Vitamines in an active and concentrated form. VITAMOGEN is in itself a food of the bighest potency, rationally concentrated according to approved scientific methods. It is rich in organic. i.e. assimilable Phosphorus, and the proportion of nutritive constituents is well balanced to meet the physiological needs of the organism. VITAMOGEN stands alone as a means of supplying the Vitamines—an entirely new food element.

food element.
VITAMOGEN is packed in two sizes, 2/9 and 5/9, obtainable from all the principal wholesale houses.

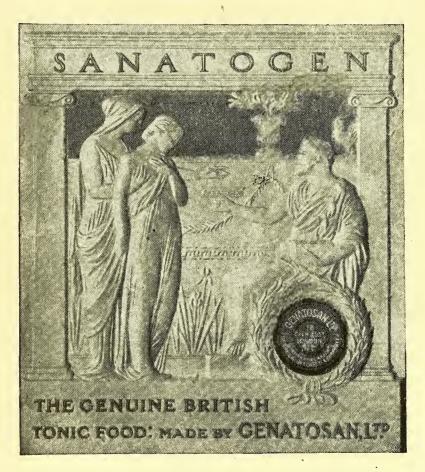
Literature on VITAMINES will be sent on application to:

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# New Showcards for the New Year

**FORMAMINT** SANATOGEN GENASPIRIN.



ZE have just received a few hundred advance copies of various new showcards ordered in 1919.

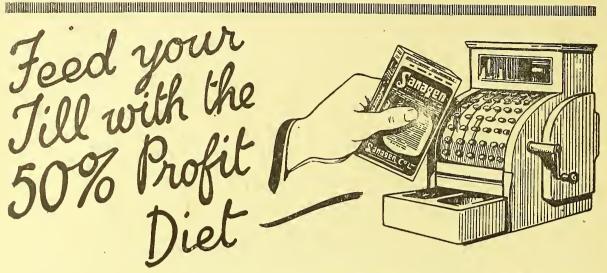
Artistic productions, in the best sense of the word—one of them was designed by a famous sculptor—they represent the highest grade of colour-printing, material and workmanship.

Also they possess strong advertising and selling power—that eye-catching quality which makes the public stop, look, and purchase.

Retail pharmacists who desire to show these cards should apply for them at once, for deliveries are so slow and uncertain nowadays that we can only offer them on the principle of "first come, first served."

(British Purchasers of Sanatogen Co.) GENATOSAN LTD.

12 CHENIES STREET, LONDON, W.C. 1



THE Chemist—more than most men—is a student of the law of Cause and Effect. He KNOWS that it is not the occasional but the repeated sale of a line which makes it an article of Profit for him to handle.

### SANAGEN IS A 50%-PROFIT-ON-COST REPEAT SELLER.

Order a supply from your wholesaler and display it on your Counter and in your Window. Then you will make sales to readers of the "SANAGEN" Advertisements in the Daily Press.



### SIZES AND PRICES.

4-oz. **3/-** 8-oz. **5/-** 16-oz. **9/6** 

Of all Wholesale Houses at 331% Discount.

### THE SANAGEN COMPANY, LTD.

SHEEPCOTE LANE, BATTERSEA, LONDON, S.W. 11.

FELEPHONE: LATCHMERE 4363.

# VITMAR

THE NEW FOOD FOR GROWING CHILDREN

is now in great demand

# Chemists can obtain it from their Wholesalers

# RETAIL PRICE WHOLESALE PRICE 2/3 per jar ... 4/3 ,, , ... 8/- ,, , ... 40/9 ,, , 76/10 ,, ,



MANUFACTURED BY

# CALLARD & CO.

CALLARD, STEWART & WATT, LIMITED,

Food Specialists,

74 REGENT STREET, LONDON, W. 1.

# CURACE

### LIQUID NERVE TONIC

Phone: New Cross 981.

### BONUS ORDER. £2 10 0

£0 16 6 1 4 0 1½ doz. 1/3 @ 11/-... 1 doz. 2/9 @ 24/-... ¼ doz. 5/- @ 45/-... ... 1 4 0 0 11 3 £2 11 9 £3 10 6 0 1 3 Bonus (½ doz. 1/3 size) 0 7 6 21% extra discount C.W.O. £2 10 6

PROFIT **56**%

All orders carriage paid. Attractive Attractive Showcards and Counter Wrapping Bills free on request. Special prices for Ireland.

CURACEA CO., ELM GROVE, LONDON. S.E. 15.

### Advertised all over the Country.

Selling Price £1 2 6 1 13 0 0 15 0

£3 18 0 Cost 2 10 6 Profit £1 7 6

Chemists have only to let the public see that they hold a stock of Osmos in order to attract customers. Osmos is on the P.A.T.A at 2/6 per bottle and yields a good profit to the retailer.

### The Great British Aperient Water

### Note these easy terms:

SIX bottles of Osmos sent carriage paid to any Chemist in Great Britain and Ireland on receipt of P.O. or remittance

for 13/-. Case returnable and when received carriage paid the charge 2/will be credited in full, or it may be retained and we will credit accounts with half the cost thereof, viz. 1/-.

Osmos, Crown Wharf, Hayes, Middlesex.



# Saint-Raphael

Tonic, Restorative, Digestive Wine.

Known throughout the Werld, and prescribed in all cases of ANÆMIA, DEBILITY, and OON-VALESCENCE, to Young Women. Children and the Aged.

DOSB: One Wine-glass after the two principal Meals.

Recommended by— PROF. BOUCHARDAT, Professor of Hy-gene, Paris Faculty of Medicine. DR. MACNAUGHTON JONES, London, England.

83" For more than thirty years St. Raphaël Wine has been exclusively prescribed, with success, in the Paris hospitals as a pure tonic, by eminent physicians, such as Magent Rostan Chomel, Velpeau, Requin, Monneret. Trousseau, Grisolle, Laënnec, &c."—Union Médicale, May 8 and June 12, 1873

Grisolle, Laënnee, &c."—Union Médicale, May 8 and Iune 12, 1873.

"The 'Vin de St. Raphaël' is often used for ladies nursing their own children; it is preferable to stout, which creates an unhealthy fat."—The Lancet, London, Englant, "St. Raphaël Wine is most present in "."

"St. Raphaël Wine is most precious in all cases where it is necessary to give tone to the system, without effort or shock."—Dr. C. Des Barres.

Cie du VIN SAINT RAPHAEL, Valence. Drome, FRANCE.

> To be obtained from all Wholesale Druggists.



### The Value of "Vin-Sanguis

is recognised by the private practitioner, the nurse and the army doctor, as well as hy the general public.

It is a blend of the choicest imported old mellow
Wine with pure Meat Juice and Malt Extract.

Widely advertised and a ready seller; bearing a good profit to wholesaler and retailer.

Retailed at 3/- and 5/6 per bottle.

Write for particulars.

Include 'VIN-SANGUIS" in your next UCAL Order



TRANS-CONTINENTAL AGENCIES LTD.,

Proprietors of Dr. Hale's "Vin-Sanguis" Co.,

14 Southampton Street, Strand, London, W.C.2.



Read the chatter of the "Quenchers":

# Let's Mingle

and make that most delightful Thirst Quencher

# Quencholeen LEMONADE

"The Perfect Summer Drink."

Mr. FRUIT: "And by our attractive terms look and be a good proposition for the retailers to take a lively interest in us-and make their assistants do so, too.

Mr. Fizz: "Yes—that's another mingle of attraction to them—for we're worth it! The customers who take us home will come again for other good things—and probably Violiv at that.

### PRICES.

RETAILS at 1½d, per packet, or 1/6 per carton of 13 packets. COSTS 13/- per dozen cartons 12/- per dozen for 6 dozen cartons.
Less 2½% for cash with order.
1 gross cartons 12/- per dozen, less 7½% cash with order.
Showcards and window-bills supplied with each order.

finest fruits. Mr. Fizz: "But without me you lack lite,

punch and attraction.

Mr. FRUIT: "When we mingle and jazz around the tumbler-we are just delightful to the thirsty soul.

Mr. Fizz: "A super-lemonade in fact—and assuredly so, for do we not come of the Violiv family, famed for perfection, delight and pleasure-

Mr. FRUIT: "Our mission here is to impress retailers to stock us for the benefit of their customers.'

Mr. Fizz: "And by our attractive packets and smart get-up look prominent in the windows and on the display stands.

Quencholeen Lemonade contains the full flavour of delightful, specially selected fruits, It has the real lemonade sparkle—and a full complement of thirst-quenching properties. It keeps well. It is sweetened ready for use.

THIS SUMMFR—stock Quencholeen. The demand will unquestionably be heavy, so send your FIRST ORDER NOW. It brings you 50% profit. It is an easy line to sell. Handy to carry for picnics, outings, etc. etc.

Selling Agents for England, Ireland and Export :

### Messrs. PATTINSON & MACKIE, Ltd.

Albion House, 59 New Oxford Street, LONDON, W.C. 1. VIOLIV MANUFACTURING CO., 26 Haymarket Terrace, EDINBURGH.



Vinum Xericum

BUTTS. 108 galls. HOGSHEADS. 54 galls. QR. CASKS. 27 galls.

STRENGTH 17°

James V. Oldham

19 St. Dunstan's Hill, London, E.C. 3.

Telephone: Avenue 3013.

### Do You Sell Sister Lauras Food?



The question is often asked nowadays.
The Chemist who does not stock Sistes
Lauras Food is missing a good line.

Sister Lauras Food is achieving great success as a preparation for weakly babes and for invalids and the aged.

It makes milk digestible and is invaluable in cases of malnutrition.

It is a thoroughly reliable line and one that brings a handsome return.

Price 1/- & 2/6 per tin. Samples and advertising matter free on application.

SISTER LAURAS INFANT FOOD CO., Ltd., 156 Vincent Street.

Increased Prices

From MARCH 1st.

USUAL SIZE

1/-

FAMILY SIZE

1/10

o the Chemist

These new Andrews' prices provide for a larger profit margin than before. Ordering by the gross, the profit is 25% on both sizes (3d. and 5½d. per Tin respectively). Andrews' Liver Salt gives its users the satisfaction which makes them buy again—regularly. If you already sell Andrews', you will know that this is so.

In case you have still to make the acquaintance of this quarterof-a-century-old Home Medicine, we invite you to write for a free tin for your personal Trial, and our Trading Terms.

SCOTT & TURNER, Ltd. Manufacturers(Dept."C.D.")

LONDON DEPOT:—

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TO USERS and DEALERS in METH. SPIRIT and SPIRIT OF WINE.

### PRESTON'S LIVERPOOL DISTILLERY C. L.

The Largest Makers in the United Kingdom.

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IVINUM AUBANTII B.P.) Prepared in strict accordance with the Formula of the British Pharmacoposia.

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GLASS ROTTLE

TREBY ST. (late Carter St.), Maplin St., Mile End, London, E.

ESTABLISHED 1840.

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Season-1920.



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No Retail Orders Executed

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(or Medicamentum Gratia Probatum id est). "The Remedy approved by Grace."

The Original and True Dutch Drops need no recommendation and their many virtues are known all over Europe and America. There is no medicine with greater Healing Power than the True Dutch Drops.

All who suffer from

Kidney or Bladder trouble, Gravel or Stone

or any other disease will be well advised to take the True Dutch Drops. There are many diseases for which Dutch Drops are the Only Cure. Beware of the imitation. Be sure to see that the signature of Cr. De Koning Tilly is on every bottle you sell.

SELLS AT 2/6 BOTTLE.

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> can now be obtained through the following wholesale houses:-

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Prepared only from the Finest East-Coast Barley, combined with the best Norwegian Non-Freezing Cod Liver Oil.

Packed in Screw-Capped Jars, Bottles and Tins, holding 1 lb. and 2 lb. Neatly Labelled and Wrapped. Customer's Name printed on Labels for Orders of 1 Gross and upwards.

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# **Extract of Malt**

and

## Cod Liver Oil

IN BULK, JARS OR TINS.

Prices on application.

THE

### BRITISH DIAMALT CO.

BISHOP'S STORTFORD.

Proprietors

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# FAWCETT'S Natural Process BARLEY

Purely Barley, and purely British, not a patent or chemically-treated food. Recommended for delicate digestions at all ages. Sells on sight.

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The only Food Preservative that has ever been publicly awarded Gold and Silver Medals and Certificates of Merit for Purity and Harmlessness.



Pull directions for use enclosed in every package.

Packed in 6d. and 2/- Packets and 2/3 Canisters.

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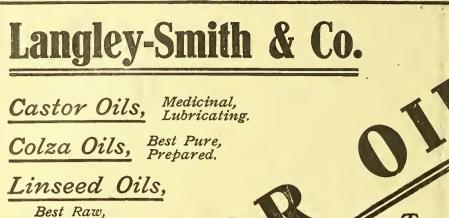
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# ANNATTO RENNET

"Oleo" and "Sunbeam" Butter Colouring. Rennet Powder, Essence of Rennet, Junket Tablets.

RENNET WORKS, ELLESMERE, SALOP.
Offices:

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Best Raw, Double Boiled, Refined.

Turpentines,

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Samples and Prices on Application.

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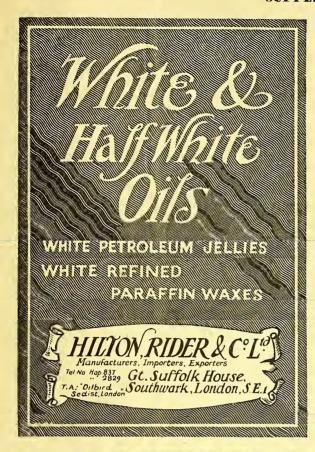
for samples and prices.

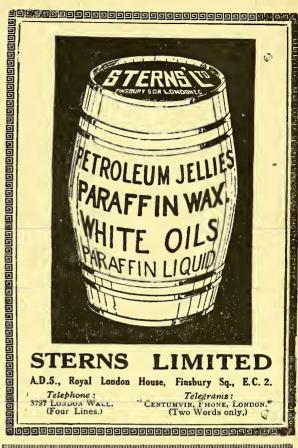
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THE

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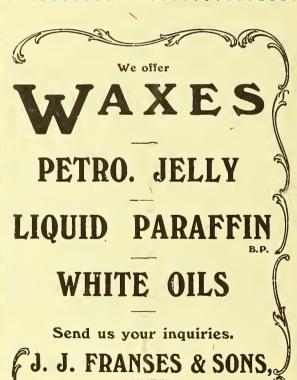
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Registered Office:

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ADEPS LANE B.P. Superfine Anhydr. and Hydrous. and Hydrous.

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White and Yellow Tasteless and Odourless. Natural Filtered and Opaque.

"JASMINE BRAND" TE OILS Chem. Pure, Water White, Tasteless, Odourless.

> MANUFACTURING PURPOSES.

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HELEN'S PLACE. LONDON, E.C.3.

Actual Refiners and Manufacturers at their Works near London.

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FINE LEAF GELATINE PURE CALF

# "ALBION" BRAND

In 1 lb. Packets. (112 ×1 lb. Packets to Case.)

MADE IN ENGLAND

FINE CRYSTAL GELATINES. PURE SKIN GELATINES. POWDERED GELATINES.

Samples on application from

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WE SOLICIT YOUR ENQUIRIES FOR:—

OLIVE OILS, finest cream edible B.P.
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TURPENTINE, American Spirits and Substitutes
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LUBRICATING OILS of all descriptions

JAMES ARNOTT & SONS, Ltd., Newcastle-on-Tyne and Cardiff.

Registered Offices: 47 PILGRIM STREET, NEWCASTLE-ON-TYNE.



Any Quantity—from Stock. Wholesale Only.

### WM. BORTHWICK

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Telephone-Hull Central 4054Y (Trunk only).

# Painting

If you stock these lines, it will pay you to write us for complete price list. Itead the following extract from letter received:—

Please forward the following... This is my seventh order his season. Your goods are the best selling line we have."

All the following goods are of standard quality, give satisfaction to your customers and show a good margin of profit:—

### RAYOLENE READY MIXED PAINT

SPECIAL DECORATORS' QUALITY. Supplied in 1, 2, 4, 7 and 14-lb. tins.

"TEXALO" The Ideal WATER PAINT Twenty Beautiful Shades. In Tins and Bulk.

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The best preparation for Cycles, Fire Ranges, Mail Carts, Gas Stoves, &c. To Retail at 10d., 1/6 and 2/9.

RAYOLENE OIL VARNISH STAINS Far superior to methylated spirit preparations.

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### TEXALO MANUFACTURING CO.

Paint and Varnish Manufacturers, SOUTH SHORE, BLACKPOOL, LANCS.



BRITISH GROWN



LONDON PRESSED

# COMPRESSED MOSS

**SPHAGNUM.**—The Turf Moss is the most absorbent and generally useful surgical dressing. It absorbs twenty times its weight of moisture.

As compressed by us in sheet form it is pre-eminently convenient. The sheet may be used as it is, or loosely crushed and placed in extemporaneous muslin bags.

The moss in this form swells up the moment moisture comes in contact with it, and the dressing so formed is resilient, spongy, and comfortable to the patient.

Being compressed, it is ideal for storage and transit.

SAMPLES AND PRICES AT YOUR DISPOSAL.

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10 New Cavendish Street, London, W.

Telegrams;

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Increased cost of manufacture compels a rise in the prices of "New-Skin" as follows:

Retail Prices Pocket Medium

Trade Prices Size  $10\frac{1}{2}d$ .) Corresponding (8/5) Increase in Trade Prices 28/91

£3 and upwards Carriage Paid.

3/-

MODERATE STOCKS ARE NOW IN HAND.

Order through your Wholesaler, or direct-

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Wholesale Price

11/6 per doz.

Carriage paid on orders of 30/upwards

22 % discount for cash in seven days

Sole Makers: The Kutseal Co. Blackpool.

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### **EXCELSIOR CREPE BANDAGES.** FAST EDGE.

Owing to the War, the supply of Crepe Velpeau Bandages is discontinued. We, are, therefore, placing on the market a bandage of English manufacture which will be soid as

GIMBER'S EXCELSIOR **CREPE BANDAGE** 

EXCELSIOR

An Elastic Bandage. Containing no Indiarubber.

TRADE MARK. Superseding Elastic Stockings, Webs, Bandages, and at half the cost.

Three sizes, about 2, 22, and 34 inches wide.

Excelsing Crepe Abdominal Bioders.—Useful after

many Abdominal Bioders.—Useful after many Abdominal Operations, and for ladies after confinements. Two sizes: 8 & 11 in. wide.

CAUTION.—Beware of fraudulent and useless imitatinns, and reject all Bandages not bearing the above Trade Mark nu the Wrappers.

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Absorbent Lints, Bandages, Cotton Wools, Gauzes, &c.

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Also o Fore Street Avenue, LONDON, E.C. Branch Works-Waterfold Mills, Heap Bridge, BURY. HIGH-CLASS BRITISH MADE

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Supplied FROM STOCK—NO WAITING Price from 45 - doz.

Complete in case with sheaths, etc.; sample on receipt of P.O. 4/-Special quotations for quantities.

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COMPANY

(Proprietora: ROBERT BALLEY & SON, LTD.)

St. THOMAS' PLACE, STOCKPOR'
And 151-7 GOSWELL ROAD, LONDON, E.C.

COMPANY

PROPRIETORS and MANUFACTURERS of

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HYGIENIC TOWELINES AND
OTHER SANITARY SPECIALITIES
FOR LADIES AND INFANTS

NEW ATTRACTIVE SHOWCARDS
AND COMPLETE PRICE LIST
NOW READY.

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### Belladonna Plasters. Breast Plasters.

Attractively wrapped, best quality, readily saleable.

Breast Plasters are shaped and have small unperforated margin.

ZOPLA (Zinc Oxide Plaster) in small attractive tins in three colours.

Also on spools and in rolls.

The most popular Strapping.

Strengthening, Corn and Bunion, Mustard, Rubber Adhesive, Holland Strapping, Plumbi Base, and all other Plasters. HELVIA CRÉPE BANDAGES,

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# Mustard?

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Mustard Leaves

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The original and only genuine.

Of all Chemists and Stores in 7d. & 1/- packets & 1/7 tins.

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Latest styles and shades 10/6 doz, and upwards.



WHOLESALE & EXPORT

Hot water bottles, air cushions, beds, enemas, etc.

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DOUCHE CANS, Enamelled Iron.

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Spread Plasters. Adhesive, Belladonna, Soap Cerate, Roborans, Flesh colour Adhesive, &c.

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Waterdressing, Fastedge, Calico, and Flannel Bandages, Elastic Web, Crepe Velpeau, and Plaster of Paris Bandages.

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Are we Receiving your Orders for

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If not, you are losing a valuable asset to your business.

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For quickly producing a perfect Polish on Floors for Dancing.

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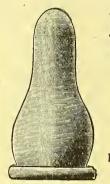
Wholesale and Export Drug Merchants and Manufacturing Chemists,

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TRANSPARENT BOAT-SHAPE



Bottle **Teats** 

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11/- per gross

Transparent Valves

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WHIRLING DOUCHES 1 each in box at 4/9 each

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All kinds of Surgical Rubber Goods in Stock.

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ALL SVÆS AND COLOURS IN STOCK

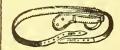
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INVENTORS OF SEAMLESS ELASTIC HOSIERY.

SURGICAL APPLIANCE MANUFACTURERS.







Specialities:

Abdominal Belts, Trusses, Suspensory Bandages. Braces, Elastic Web Bandages, and Druggists' Sundries.

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Finest stout Rubber Ball and Vulcanite
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54/- per dozen.
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Drab Ammonia Proof. Acid Proof.

Prices for 8-oz. Bottles ... 3/3 4/3 per gross

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SPECIAL PRICES FOR LARGE QUANTITIES.

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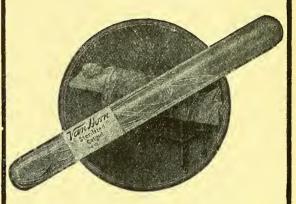
Manufacturers of all Rubber Specialities for Medical, Chemical & Laboratory use,

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# The thought behind the tube—

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Not "good enough," but the best from every standpoint—alone assures that degree of "Catgut Safety" demanded when the patient on the table is "one of my own family."

Only on this peculiarly personal basis is

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VAN HORN Obstetrical Suture (Chromic Gut)

K-Y Lubricating Jelly
An Ideal Emollient.

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(GOLD MEDAL, GUARANTEED)

### Hot Water Bottles

8 - lb.  $12 \times 8$  weighs under 13 oz.

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BELTS TRUSSES SUSPENSORIES

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AT LOWEST CURRENT RATES

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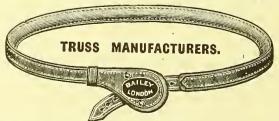
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Actual Makers.

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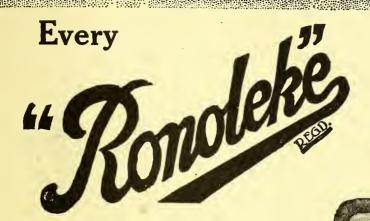
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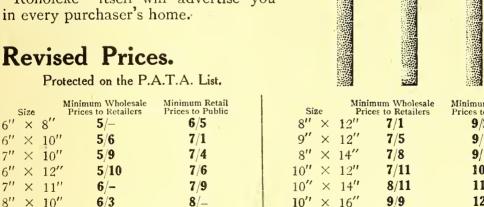
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The fact that the "Ronoleke" Bottle CANNOT leak makes satisfied customers who will have confidence in coming to you for all their other needs. Make sure of your supply of "Ronoleke" Guaranteed Unleakable Hot Water Bottles by ordering through your Wholesale House right away NOW.

They will supply you also with attractive advertising material, and the "Ronoleke" itself will advertise you in every purchaser's home.

			1		
Size	Minimum Wholesale Prices to Retailers	Minimum Retail Prices to Public	Size	Minimum Wholesale Prices to Retailers	Minimum Retail Prices to Public
					Frices to Fublic
6" ×	8" 5/-	6/5	$8'' \times 1$	12'' <b>7/1</b>	9/2
6" ×	10" <b>5/6</b>	7/1	9" ×	12'' <b>7/5</b>	9/7
7" ×	10" 5/9	7/4	8" × 1	14" 7/8	9/11
6" ×	12" <b>5/10</b>	7/6	10" ×	12'' <b>7/11</b>	10/2
7" ×	11" 6/-	7/9	10" ×	14'' <b>8/11</b>	11/5
8" ×	10" 6/3	8/_	10" × 1	16'' <b>9/9</b>	12/7
7" ×	12" 6/6	8/4	12" × 3	14 <b>'' 9/11</b>	12/8
6" ×	14'' <b>6</b> / <b>6</b>	8/4	12" ×	16 <b>'' 10/6</b>	13/6

Your Wholesale House will supply you







# Why Demand is still Growing.

Demand for the Nestlé Feeding Bottle is still growing—and it is growing because it is superior to any other feeder on the market. Its many advantages are so evident that mothers, thinking of the safety and comfort of their babies, are insisting upon the Nestlé Feeder.

The teat and rubber valve of the Nestlé Feeder are made with inner rolls which automatically cling and cannot be pulled off by the child. There is not the usual danger of swallowing the teat as in many other feeders. Pure plantation rubber is used in the manufacture of the teat and valve. Colic is prevented by the rubber valve regulating the flow of air behind the milk. This valve also ensures a steady milk flow in accordance with baby's need.

The central base, tapering flat under surface of the virgin glass feeder enables it to be tilted to, and remain in, any desired position. This saves the time usually occupied holding the feeder. It holds more—the feeding capacity is 10 oz.—sufficient for any child at one feed.

# NESTLE Feeding Bottle

Every part of the Nestlé Feeder, including box, is British made. Every Feeder is sterilised before leaving the factory.

The margin of profit to you is good and the turnover rapid. Write us for full details and current Trade Price List.

NESTLÉ'S (Advt. Dept.), 6-8 EASTCHEAP, LONDON, E.C.3.

### The "EVERSAFE" BARY PACIFIER. Patented Everywhere. Present rates :-No. 2 4d. line **2/9** doz 2C 6d. ,, 3/2 ,, 2E 6d. " 3/4 " 3 7½d.,, 4/8 ,, Obtainable from all Wholesalers or direct from Patentees. Sample Order, Three Dozen Assorted:

Sample Order, Three Dozen Assorted:

Send 10/6, post free.

F. SCHUTZE & CO., LTD.,
Black Bull Works, London, N.

### Just Arrived.



A Limited Consignment of

THE

### "PORTIA"

(Regd.)

NET WEIGHT

### **Baby Balance**

Weighs up to 15 lb.

Price

Retail

30/-

3/6

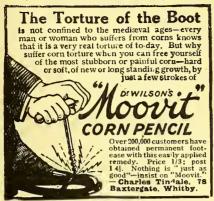
Owing to restricted imports this line has been off the market for some time, and we think that many friends will be glad of the opportunity of renewing their stock.

SOLPORT BROS., Ltd.

184 to 190 Goswell Rd., London, E.C.1

Obtainable through all Wholesale Houses.

Style of Advert. in Local Paper.



# Your Business advertised FREE for 12 months

YOU can have your business advertised free for twelve months if you agree to take up a Sole Agency for "MOOVIT" Corn Pencils.

• During the next few weeks we are going to appoint an Agent in every town in the British Isles, and we have decided upon the following offer.

I If you send an order for 12 dozen "MOOVIT" Corn Pencils, we will make you Sole Selling Agent in your district, and we will insert an Advt. (as above—with your name thereon) in the local paper for 52 weeks. In other words, you get twelve months' advertising FREE.

¶ And you do not require any special knowledge in order to successfully sell "MOOVIT" Corn Pencils, because our advertising in the Daily Press (together with the Advt. in your local paper, and your window display) makes the selling easy; and you get 5½d. on each stick you hand over the counter.

Twelve dozen "MOOVIT" Corn Pencils at  $9\frac{1}{2}$ d. each cost £5/14/0, you sell them at 1/3 each, thus making a profit of £3/6/0. They are attractively packed in display boxes, with striking posters. dummies and advertising matter.

• We guarantee to buy back any unsold Corn Pencils in your stock-room at the end of the twelve months if you feel you cannot dispose of them.

 $\blacksquare$  Isn't that a fair offer? Then send along vour cheque for £5/14/0 NOW, before your competitor gets the agency.

Sole Manufacturers:

### TALBOT WILSON

(Howard Stevens & Co., Ltd., Proprietors)

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# Are you stocking Sorbo Sponges?

They sell at sight and keep on selling!

O great is the demand for these ALL-BRITISH natural-coloured rubber sponges, that big stocks sell out in a few days.

People buy them and tell their friends about them, how inexpensive Sorbo Sponges are, how strong and soft and wonderfully absorbent. No one has ever seen any other sponges-natural or manufactured—to compare with these in quality.

> Soap improves them and they improve with use.

Thousands and thousands of pounds are being spent this year to advertise Sorbo Sponges and create a national demand for the finest Rubber Sponge in the world. Week after week, sales of Sorbo Sponges will go up and that increased trade will be permanent. It will certainly pay you to order your stock now so that you can benefit by the big demand from the very first.

Send a trial order to-day and display Sorbo Sponges. A parcel of three dozen assorted sponges shows you 33\frac{1}{3}\% profit.

YOUR WHOLESALER CAN SUPPLY



THE MOST ABSORBENT RUBBER SPONGE

Protected Retail Prices:

No. 1, 1/3; No. 2, 2/-; No. 3, 3/-; No. 4, 5/-; No. 4R, 7/6; No. 5, 10/6.

RUBBER-SPONGE PRODUCTS, LIMITED. SORBO 24. Walbrook, London, E.C.4.

Telegrams : Oserbeau, London.

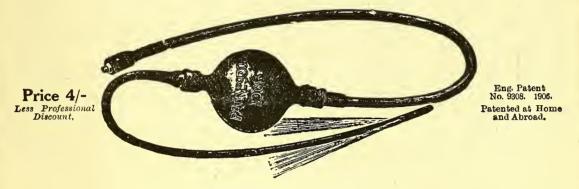
Telephone: CITY 9372.

#### "HYDRION" A Powerful Antiseptic Tablet quickly soluble in water: for Dressing Skin Wounds, Lacerations, Compound Fractures, Burns, &c.

The formula of an eminent surgeon, obtained after years of scientific research and clinical application. "Sepsis," where directions are faithfully carried out, is unknown. See LANCET, Dec. 19, 1914, pp. 1438 et seq.

Write for Pamphlet and Free Sample.

# The "NEW CENTURY" Urethral Syringe.



#### CHIEF EDINTS OF VANTAGE:

- (1) Simplicity and comparative comfort is use.
- (2) Ease of complete sterilisation. (3) Absence of hard material in construction.
- (4) Remarkable absence of distress in use.
- Quickness in controlling discharge. Nnlimited quantity of irrigating fluid.

COMPRESSED INJECTION TABLETS, SPECIALLY MANUFACTURED for use with the "NEW CENTURY" URETHRAL SYRINGE.

> Each tablet makes half a pint of non-irritating injection. Glass Tubes, containing 12 tablets, price 6d. each tube.

# "DETERGOL" BRITISH MADE WITH

AN IDEAL ANTISEPTIC DEODORANT DISINFECTANT.

Contains 20% more Cresol than any other similar preparation.

Superior to any German Preparation.

Surgical Instruments can be safely sterilised and disinfected in a few seconds without danger of corroding by using "Detergol."

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TABLETS, PILLS, etc., and CHEMICAL and MEDICINAL PREPARATIONS of all descriptions

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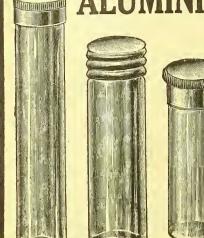
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Wholesale Manufacturing Chemists.

MANCHESTER.

YOU WILL HALVE YOUR BILLS FOR

# GLASS TUBES, GLASS BOTTLES LUMINIUM & LEAD



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# GATES' BOTTLE CAPPING CAPPING SINGUILINI SORTHING QUI' Skins are damp and R Used by all the Leadin Houses. ABSOLUTI as Split Skins and "Mine beat all others." Eng HA Anot' TRAI



SNOW-WHITE ROLLED SKINS.

SOMETHING QUITE NEW. Skins are damp and READY FOR USE. Used by all the Leading Perfumery and Drug ABSOLUTELY AS OPAQUE as Split Skins and equal in appearance.

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"SOLE PIONEER

and Only English Manufacturer

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Telephone N >s.: 53 & 3. Another New Speciality.—Try my FRANSPARENT SHEEP BAUD-RUCHE CAPPING. SKINS.

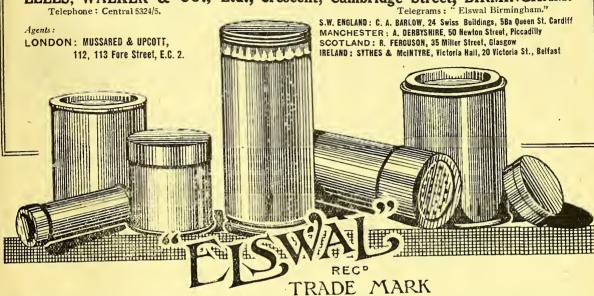
THE CHEAPEST & MOST EFFECTIVE CAPPING

MODERN hygiene—apart from the high costs of production connected with glass and earthenware containers—makes the use of "Composite Canisters" imperative. "Elswal" Composite Canisters are made from tin and best paper impregnated with purest wax, in MODEL FACTORIES. They must not be confused with other imitations that break apart or leak at the base. In "Elswal" Containers these faults are impossible. "Elswal" supersedes the insanitary glass or earthenware pot—which is often returned and used again after indifferent cleansing. The use o "Elswal" costs far less initially, minimises freightage costs and eliminates entirely the trouble and cost of "returns." Write for Trade Terms and insist on "Elswal" products only. These Canisters are the ONLY containers that can be guaranteed to hold the correct weight.

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Telephone: Central 5324/5.

Telephone: Elswal Birmingham."



#### "CORRUGATED" ROLLS AND BOXES (Collapsible)

Cut Pieces. Cartons for Packing. Waxed Papers. Greaseproof Papers. Waxed Corrugated.
Corrugated. Strong "Outers."

Keenest Prices. Complete Packing Schemes. Inquiries Welcomed.

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GUILDHALL CORRUGATED PACKING MATERIALS CO.

Guildhall Buildings, Navigation Street, Birmingham.

THE

#### Glass Blowers British

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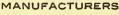
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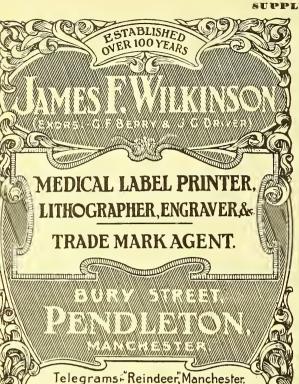
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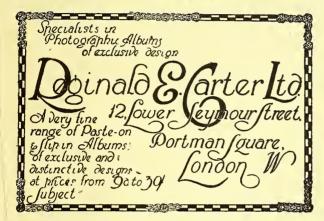
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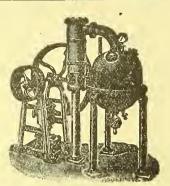


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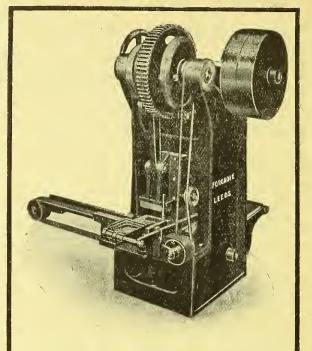
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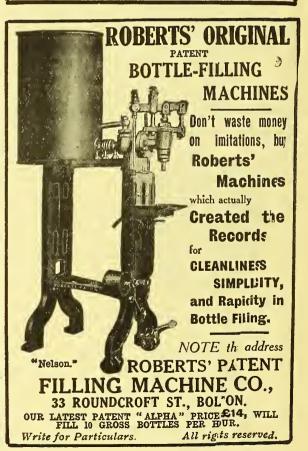
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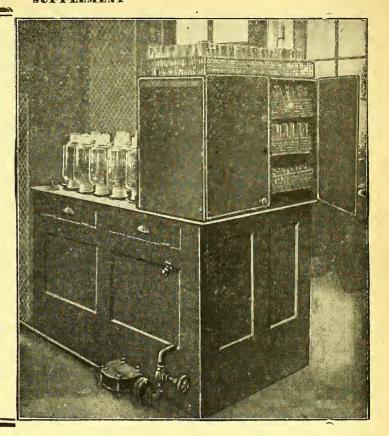
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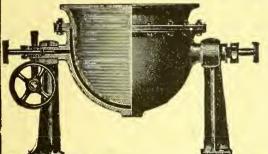
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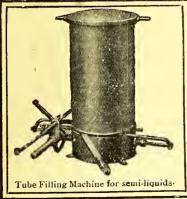
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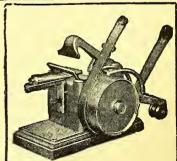
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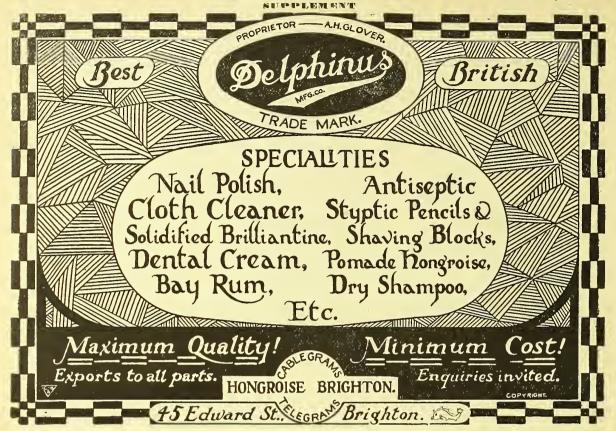
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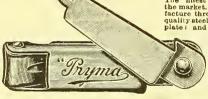
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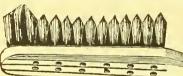
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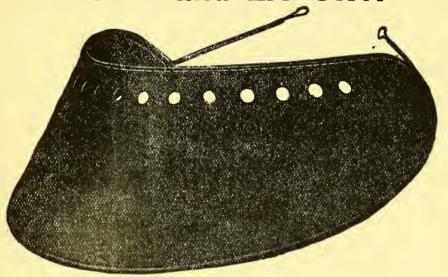


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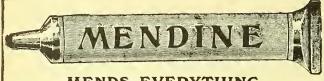
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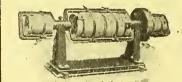
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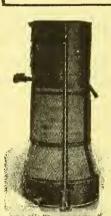


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# THE CHEMIST AND DRUGGIST

42 CANNON ST. LONDON, E.C.4. SUPPLEMENT

MARCH, 27, 1920

This Supplement is inserted in every copy of The Chemist & Druggist

#### EASTER HOLIDAYS

NEXT week THE CHEMIST AND DRUGGIST SUPPLEMENT will be put to Press a day earlier than usual. Therefore any advertisements intended for the SUPPLEMENT of April 3 should reach this Office not later than

N.B.—The Offices will be closed from Thursday evening, April 1, to Tuesday morning, April 6.

10 a.m. on Wednesday, March 31.

ADVERTISEMENTS RECEIVED LATER will be INSERTED in the ISSUE of APRIL 10.

EARLIER CLOSING FOR PRESS. Will advertisers please note that until further notice it will be necessary that Advertisements

intended for the Supplement must FIRST POST THURSDAY MORNING.

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4.—KING'S CROSS STATION (within easy distance of).—Drug Store; returns £18 weekly; single-fronted shop, well fitted and stocked; rent £38 per annum; price £475.

5.—LONDON, E.—Cash Retail Business; no poisons sold; returns upwards of £1,100 at good prices; corner shop, well stocked; small residence; moderate rent; further details on application.

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7.—SOUTH COAST.—Toilet and Perfumery Business, with Photographio Sundries; scope for considerable extension; returns last

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8.—SUSSEX (Health Resort).—High-class Retail and Dispensing Business; returns £5,000 per annum; stock and fixtures estimated at £4,000; further details on application.

9.—MIDLANDS.—Old-established Wholesale and Retail Business; returns exceed £8,000 per annum, at good profits; long lease; low rental; further details on application.

10.—SOUTH WALES (Coast).—General Retail Business; returns £50 weekly; gross profit 40%; single-fronted shop, well stocked; long lease; rent £75; price to be arranged.

11.—NORTH STAFFS.—General Retail Business; returns exceed £2,500 per annum; books open to investigation; double-fronted shop; low rent; new lease can be obtained; price about £1,500.

12.—MIDLANDS.—General Retail and Dispensing Business; returns, present rate, exceed £3,000 per annum; net profit 25%; double-fronted shop; rent £80; held on lease; price £2,500.

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#### SITUATIONS OPEN.

#### RETAIL.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

BIRMINGHAM.—Smart Assistant for middle-class Retail and Dispensing business; outdoors; no Sunday duty; must be good Dispenser. Oakley, Six Ways, Smethwick.

RASTBOURNE.—Qualified Assistant, as Dispenser for high-class business, for end of April. State salary required (outdoors), with usual particulars, enclosing carte (if possible), to H. R. Browne, Pharmaceutical Chemist, Eastbourne.

ONDON, E.-Qualified Manager required for Light Retail business with Incurence Discourage ness, with Insurance Dispensing, in a good Suburban district; small house attached; interest in the profits to an energetic and persevering man. Apply "Bark" (85/140), Office of this

L ONDON, S.E.—Assistant, unqualified, wanted for quick Cash Retail; good Counterman and Window-dresser; no late Thursdays or Sunday duty. Brooks' Drug Stores, Broadway, Deptford, S.E.

LONDON, S.W.—Wanted, qualified Managers and unqualified Assistants, both sexes; must be good Salesmen and Dispensors, also knowledge of Photography; those requiring good, progressive permanency, good salary, and commission. W. B. Beunisous, Ltd., 133 King's Road, Chelsea, S.W. 3.

I ONDON, W. 1.—Wanted (immediately), a capable Assistant; one with previous West-End experience preferred. Apply personally or by letter J. Munro & Co., 273 Regent Street.

ONDON, W.—An experienced Assistant (at once) in high-class Dispensing business; must be quick, accurate, and good writer. Apply, giving age, height, and full particulars of experience, with salary required (outdoors), J. Atkins, 109 Queen's Road, Bayswater, W. 2

ONDON, W.—Evenings; near Baker Street; each Thursday, 6 till 8 p.m., alternate Sundays, 6 till 8; qualified; reliable Dispenser and Counterman. Apply, stating particulars of experience and terms, to Goodall, Chemist, Ealing Road, Wembley.

LONDON, W.—Jnnior Assistant, unqualified; accustomed to good-class Retail and Dispensing business; outdoors; easy hours. Apply, with full particulars, reference, and salary required, to W. A. Weston, 8 Sandringham Parade, Ealing, W. 5.

NEWPORT.—Smart Junior required; good Stockkeeper. State age, salary required, and when at liberty; permanency if satisfactory. "N." (85/14), Office of this Paper.

PRESTON-Qualified Manager required for working-class business; N.H.I. Dispensing; must be good Counterman; liberal interest in the profits. P 85/141, Office of this Paper.

OUTH COAST.—Manager required for high-class, modern Drug Store business doing big turnover and increasing; special departments: Photographic, Optical, Surgical; must be smart and energetic Salesman, with up-to-date business methods; qualification not essential. State age, height experience, and salary required, in first instance, to 86/31, Office of this Paper.

SOUTH OF ENGLAND.—Assistant, required; free removal; permanency, with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.

WESTERN OPHTHALMIC HOSPITAL.—Part-time Dispenser required for afternoons and Wednesday and Saturday mornings; salary £125. Applications, with full particulars, should be sent to the Hon. Secretary, Western Ophthalmic Hospital, Marylebone Road, N.W. 1.

THE GENERAL HOSPITAL, BIRMINGHAM.

A MALE Assistant (unqualified) is required to give general help in the Dispensary; age about 18. Preference will be given to a caudidate wishing ultimately to become qualified, and assistance would be given in that direction. Commencing salary £100 per annum.

A SMART, experienced, unqualified lady Assistant required for good-class business in West-End London; duties are Counter, Window-dressing, and Stock; no Dispensing knowledge necessary; please state salary required and when at liberty. Apply 85/16, Office of this Paper.

A VACANCY occurs in a large London Pharmacy for a lady Dispenser (Hall); must be neat, quick, and accurate. Applicants please give full particulars as to experience, salary required, etc., to 86/22, Office of this Paper.

A SSISTANT (outdoors); East Coast seaside village; a few months; hours 9-7; one day off, also half-day; state age, height, salary required (which must be moderate). Davies, Chemist, Kessingland, Suffolk.

A SSISTANT, unqualified, for General Retail and N.H.I. Dispensing; outdoors. Apply, with full particulars and salary required, to J. Patterson, 52 Inford Lane, Ilford.

CAPABLE Manager required for Brauch; one accustomed to Street, N.

COMPETENT Dispenser wanted for two weeks, April 6th to 17th; lady or gentleman; not necessarily qualified; state remuneration required and any other particulars. Egginton, Pharmacist, Sedgley, near Dudley.

DISABLED qualified Chemist or clderly gentleman can bave an easy post as Supervisor; duty six hours daily; no Counter work or Dispensing; post vacant shortly. Apply, stating salary and age, to 65 Rustlings Road, Sheffield.

#### LONDON COUNTY COUNCIL.

Dispensing Chemist, made (with Pharmaceutical Society's qualifications and practical knowledge of Photographic work) required at London County Mental Hospital, Colney Hatch, New Southgate, N. 11. Ago not to exceed 40. £130 a year, rising by £10 a year to £200. In addition (at present) war wages and other extra payments at rate of £36 a year. No emoluments. Preference given to candidates who have served or offered to serve with H.M. Forces. Appointments subject to medical examination. Pensionable, Full particulars on form of application (on which alone application must be made), obtainable from Asylums Officer, London County Council, 13 Arundel Street, Strand, W.C. 2. Estamped addressed envelope must be seut. Applications must be received by 11 a.m. on 7th April, 1920.

JAMES BIRD,
Clerk of the London County Council.

DISPENSER wanted (male), for morning and evening Surgery. Apply, stating age, experience, and salary required, to 88/25, Office of this Paper.

ToR high-class Pharmacy at fashionable seaside resort; excellent living accommodation; competent Assistant, of gentlemanly appearance and address, having good experience Sight-testing and Photography, able to organise developing, printing, etc., on large scale. Applicants are requested to send full partioulars as to age, single or married, qualifications, previous engagements, copies only recent testimonials, to 80/25, Office of this Paper.

JUNIOR (at once) for country business in West of England; outdoors, but meals in house in business hours; no Sunday or Bank Holiday duty; easy hours. State salary required and enclose photo (returned) to Palmer, Thornbury, Glos.

MANAGER for quick cash business, six miles London; N.H.I. Dispensing; liberal salary and interest in net profits; must be thoroughly active, businesslike, and good Salesman. Full particulars to Leonard Matthews, M.P.S., 5 Tennyson Avenue, Wanstead, E. 11.

MESSRS. TIMOTHY WHITE CO., LTD, Chemists, Portsmouth, require a capable Pharmaeist; casy hours; good and progressive salary, with excellent prospects; free removal.

PHARMACY and Optical Department.—Wanted, male Improver or young Assistant (male); full knowledge of Photography essential, and must be a good worker. Applications, stating age, wage, and experience, to Secretary, Co-operative Society, Ltd.,

QUALIFIED Senior required for seaside town; should be a good Salesman and Window-dresser, and have a knowledge of Photographic work; full particulars and salary required please. Cole & Son, Weymouth.

QUALIFIED Assistant required for good-class suburban business; good Counterman; able to take charge. State full particulars and salary expected to J. Noble, 20 Woodcote Road, Wallington, Surrey.

QUALIFIED Assistant for North London; elderly man would suit; or part time; easy hours; Dispensing and some Counter; two rooms and use of kitchen could be provided; state salary expected and full details in first letter. Apply 38/7, Office of

SMART Junior, not over 30, in good-class City business; Dispensing and Counter; hours 9 to 6.30; half-day Saturday; no Sunday duty. References and particulars to Brewer & Marston, Pharmaceutical Chemists, 44 Copthall Avenue, E.C.

WANTED, for country town in Scotland, good, reliable, unqualified Assistant, mainly for the Dispensing Counter, but able to take charge in absence of principal; good wage will be paid to suitable party seeking a permanency. Applications, giving fullest particulars of experience, age, and salary required, will be treated with fullest confidence, and should be addressed to 85/19, Office of this Paper.

WANTED, smart Junior Assistant (male) in quick cash trade, with Store experience preferred. Apply personally if possible, if not full particulars of experience, etc., in first letter, to Morton's Cash Chemists, Ltd., 146 Wandsworth Bridge Road, Fulham, S.W. 6.

WANTED, part-time Assistant for dinner hours, about 12-2, evenings 5-7; suit student; lady preferred. Wray's Drug Co., Ltd., 8 High Holborn.

WANTED, by good West-End firm, a young woman Assistant, used to Surgical Dressing trade; must be quick and of good appearance. Apply, stating age and experience, to 38/18, Office of this Paper.

WANTED, Junior Assistant (outdoors); hours 9-8; half-day weekly; no Sunday duty; salary £3; state full particulars. Apply 88/10, Office of this Paper.

YOUNG lady wanted for Photographic Department (May 1); used to working Developing Tanks, Printing, and Enlarg-ing; able to Spot, Mount, and Tonc. Wages and references to D. Dunlop, Lakeland Pharmacy, Bowness-on-Windermere

#### WHOLESALE.

A MINCING LANE firm of Chemical and Crude-Drug Merchants have vacancy for smart Buyer; thorough knowledge of the trade in Home Market essential; salary to begin £300. Apply, stating experience 33/5R, Office of this Paper.

A NALYST required for Pharmaceutical Laboratory; provincial town; please state age, experience, aud salary required. Apply 85/37, Office of this Paper.

A PPLICATIONS invited from Travellers with sound, personal connections to carry as a side-line, on commission, a unique Moth Exterminator, many times more efficient and economical than camphor, naphthaline, etc. State ground covered to 85/10, Office of this Paper.

A SSISTANT wanted in Food Products Department of Wholesale house. Apply by letter, stating experience and salary required, to 5/6C, Office of this Paper.

CHEMIST wanted to take charge of Nitrate work and Electrical Plant. Apply 87/32, Office of this Paper.

RANCY GOODS. BRUSHES, ETC.—Department Manager and Buyer wanted by Wholesale firm in the provinces. Apply 1/2A, Office of this Paver.

ENERAL Laboratory Hand, with some knowledge of Tablet-making, required by Lancashire firm of Manufacturing Chemists. Apply, stating agc, experience, and wage required, to 1/3A, Office of this Paper.

GIRL or Youth able to set type and to use hand printing press wanted by London firm of Wholesale Chemists; good opportunity in growing business. State salary, experience, etc., to 3/2B, Office of this Paper.

Laboratory hand, with sound knowledge of general Steam Laboratory work, tinctures, concentrated infusions, and medical specialities, required by a Lancashire firm of Wholesale Druggists. Applicants should state full particulars of experience, age, and wage required, 1/300, Office of this Paper.

LaBoratory.—Qualified man wanted to take charge of Manufacturing Pharmaceutical Laboratory of provincial Wholesale house. Apply, with full particulars, stating salary required, to 35/48, Office of this Paper.

QUALIFIED man required for Despatch Counter, London Wholesale house. Usual details to "X. Y. Z." (23/4), Office of this Paper.

REPRESENTATIVE; London connection; bachelor preferred; salary and commission basis. State particulars to "Alpha" (00/38), Office of this Paper.

REPRESENTATIVE required for Northumberland, Durham, and Cumberland, to take over an existing connection capable of considerable increase; lines: Proprietary Food Preparations, including a good Tonic Wine; commission basis; please supply all usual particulars with application. "Food" (25/2N), Office of this Paper.

SALES Manager (Assistant).—Vacancy exists for energetic and enterprising young man in office of leading provincial firm manufacturing one of the highest class and best-known Proprietary Articles; must be able to organise and conduct routine work in conjunction with the Advertising Department. Reply, stating age, experience, where gained (in confidence), and salary required, 151/27, Office of this Paper.

The Aveller wanted for Lancashire, Yorkshire, Durham, Northumberland, Cumberland, and Westmorland by importer of French Druggists' sundries and fancy goods; commission basis; selling to Wholesalers only. Write, stating age, references, 7/2D, Office of this Paper.

TRAVELLER required to represent manufacturer of high-class Safety Razor Sets on commission basis; only those with connection amongst Wholesale and Retail Stores, etc., need apply. State ground covered and full particulars to James Mirfin & Son, Ltd., 32 Arundel\_Street, Sheffield.

TRAVELLERS wanted throughout the United Kingdom to carry a good selling and attractive side-line; must be good Salesmen; 15 per cent. commission given; particulars in confidence. Apply 85/29, Office of this Paper.

VINOLIA COMPANY, LIMITED, require a qualified Chemist to act as Assistant Manager; applicants must be experienced in the manufacture, on a large scale, of high-class Toilet Preparations and Perfumery, and be used to the control of staff. Reply, stating full particulars of age, experience, and salary required, to Managing Director, Vinolia Company, Limited, Bebington, near Birkenhead.

WANTED, capable Forewoman to take charge of Filling and Finishing Departments of a high-class manufactory of Perfumery in the provinces. Apply, stating age, experience, references, etc., to 47/1Z, Office of this Paper.

WANTED, Manager for Photographic Department of high-class Drug Store; must be good Salesman, with thorough knowledge of cameras and accessories; must also possess prac-tical experience of developing, printing, and enlarging on a big sale, and be able to deal systematically with the developing, etc., trade of several branches. Apply, stating full particulars of experience, age, height, salary required, and when disengaged, to Lion Drug Stores, 15 Madeira Place, Brighton.

WHOLESALE (SCOTLAND).—Young man with good experience of office work in Wholesale house is required to assist in pricing, costing, estimates, etc. Apply, stating salary desired and full particulars, to M 23/5, Office of this Paper.

#### SITUATIONS OPEN.

#### (Colonial, Indian and Foreign.)

BRITISH EAST AFRICA.—Qualified Assistant; single; under 30; good General experience essential; knowledge of Photography a recommendation: three years' agreement; second-class passag; paid out; healthy climate; easy hours; salary £360, £390, and £420, for the first, second, and third years respectively. State age, experience, and references to P.C.B. 52/12. Office of this Paper.

TAR EAST.—A qualified Assistant, not over 30 years of age; must have had experience in first-class Retail and Dispensing business; good salary for the right man; passage paid out and home, on a four years' agreement. Address 85/33, Office of this Paper.

RHODESIA.—An opening for a young qualified Assistant who has had good Dispensing experience; prospects excellent and climate delightful; cost of living reasonable, excellent board costing about £10 per month; three years' agreement; passage paid out; salary offered £27 10s. per month for the first year, £30 per month for second, and £32 10s. third, with furnished bedroom. Apply by letter only to "C. M. N.," 25 Arrol Road, Beckenham, Kent.

CTRAITS SETTLEMENTS.—Young Assistant, unmarried, with Chemist's qualification, a good knowledge of Optics desirable; four years' agreement; passage paid out and home; salary first year £490, second and third years £525, fourth year £560. Apply 140/34, Office of this Paper.

#### SITUATIONS WANTED.

#### [HOME.]

#### RETAIL.

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-,

A.A. A. -LOCUM; disengaged; booking dates; exceptional moderate. Oliver, Christian Road, Preston.

A JUNIOR (unqualified) requires post in London or Midlands; good all-round experience (Extractor); good references. Apply 80/13, Office of this Paper.

A JUNIOR requires situation; good-class Dispensing and Photographic experience; state salary. "Statim," 86 F. Salusbury Road, Queen's Park, N.W.

A QUALIFIED Chemist desires permanency or Locum in West Country; April; wide experience; salary secondary consideration to comfortable berth; holiday before commencing, if possible. State fullest particulars of vacancy first letter, 87/25, Office of this Paper.

A DVERTISER wants situation; age 19; 2½ years with present employer; Stock and Counter. Apply 84/19, Office of this Paper.

A DVERTISER requires berth at once; Brighton or district preferred; Dispensing, Photographic, and Optics. F. G., 57 Western Road, Brighton.

A DYERTISER, fully qualified, married, 23 years' experience, energetic, courteous, desires permanency; reside on premises, with view to gradual succession; South of England; has been in business. "Optics" (87/177), Office of this Paper.

A S Locum (Hall); free April 20th; Doctor or Institution; five years' experience; London or elsewhere. Miss K. Russell, at 4 Gawber Road, Barnsley, Yorks.

A S Locum or permanency; excellent references and experience. "Chemist," 49 Rokeby Road, Brockley, S.E.

A S Manager or Assistant; unqualified; abstainer; permanency preferred; all-round experience; excellent references. Felix, 21 Westbourne Street, London, S.W.

A SSISTANT; unqualified; 28; married; good-class Dispensing and Counter experience; disengaged. Lafford, Wilden, Gwynne Road, Upper Parkstone, Dorset.

A SSISTANT; 27; unqualified; married; four years' apprenticeship; 3½ years' high-class Retail experience; London or suburbs. Alford, 15 Queenswood Road, Forest Hill.

A SSISTANT (50); unqualified; good-class Retail; Dispensing; experienced; quick and accurate; undeniable references; diseugaged for demobilised man recently taken back. Please state salary, Stevens, 15 Fletching Road, Clapton, E. 5.

A SSISTANT; unqualified; 34; single; 15 years' experience; excellent references; recently demobilised. Salary and particulars to Lamb, H. J., Norman Villas, Normanton, Yorks.

A SSISTANT, unregistered; permanency; one change last 10 years; 20 years' town experience Counter, Dispensing, Photographics; excellent references; disengaged; tall. 18 Rathcoole Parade Hornesy N

A SSISTANT, unqualified; manage or under; permanency or Locum; London; disengaged; experienced all round. W. P., 72 Treradoc Road, Clapham.

A SSISTANT (unqualified); eountry; N.H.I.; windows; Photo Expert; pre-war experience. W. E. Carter, 33 Chancellors Road, Hammersmith, W. 6.

A SSISTANT (26), unqualified, 10 years' good all-round experience, excellent references, desires situation. Kindly state salary, 86/34, Office of this Paper.

A SSISTANT; 33; unqualified; capital experience all round, and thoroughly capable; Chesterfield, Sheffield, or Nottingham district. 86/39, Office of this Paper.

A SSISTANT; unqualified; 47; experienced. G. D. North, 4 Goldsmith Square Nottingham.

COMPETENT Assistant; unqualified; married; 29; take charge; 13 years' experience; South Coast preferred; permanency; undeniable references; state salary. Apply 84/11, Office of this Paper.

DISENGAGED, Dispenser, with good experience; Locum or permanency; would do Hospital Locum. Apply 85/40, Office of this Paper.

DISENGAGED at Easter requires situation as Assistant in Newcastle-on-Type or near; interview; age 20. Write 84/3, Office of this Paper.

DISPENSER; 48; Army qualification; 26 years' Army Hospital experience; excellent references; recently demobilised; London or suburbs preferred. Apply "S.," 20 Spensor Road, Herne Hill, London.

DISPENSER; Doctor or Chemist; R.A.M.C. qualification; thoroughly reliable; London experience; permanency; outdoors; excellent references. "Phenazone," 27 Railway Street, York.

DRUG Store Manager desires change, or would go on the road; 36; married; smart appearance; 21 years' experience, Photographic, Optical, Surgical; permanency. Martin, 35 Wyatt Road, Forest Gate.

RASTER and Holiday Scason.—Qualified; thoroughly expericounter, Photography; take charge; moderate terms; booking forward. Auderson, 9 Grantbridge Street, Islington, N. 1.

ENERGETIC, capable, rcliable Assistaut; 39; thoroughly experienced; unqualified; well educated; good address; quick and neat Dispenser; capable sole charge; tactful Salesman; abstainer; highly recommended; disengaged; London or suburbs. "Radix," 25a High Street, Putney.

JUNIOR Assistant, 20, requires situation until October; W.R. Yorks; four years' good all-round experience; can start immediately. Jackson, 102 Kirkgate, Wakefield, Yorks.

JUNIOR (221), unqualified, desires situation in Dispensing business, object of gaining further experience. Smith, 23 Roman Road, Colchester.

JUNIOR (204), excellent all-round experience and references, requires situation until October; London preferred. Salary, etc., 87/12, Office of this Paper.

JUNIOR, smart appearance and address, good Dispenser, Salesman, and Window-dresser, requires situation in London until October; excellent references. Apply 87/120, Office of this Paper.

LADY Assistant; aged 20; practical knowledge of Counter work, Dispensing, and Photography; five years' experience; Lincolnshire and district preferred. D. Alexander, North Street, Bourne.

ADY Assistant (20); well up Counter, Photography, and varied Dispensing; good appearance and address; smart sales girl; conscientious; high-class experience. Drew, Nelgwen, Sidmouth.

LADY Associate (26), eight years' experience practical and theoretical, seeks Dispensership, statistical or costing. Apply 85/34, Office of this Paper.

LADY Assistant; Hall certificate; four years' experience; temporary or permanent; London or Dublin. Barber, 101 Melrose Avenue, N.W. 2.

ADY Dispenser (Hall) desires post; excellent testimonials; experienced. Dispenser, County Hospital, Hertford.

LADY Dispenser desires post, either Doctor or Chemist; thoroughly reliable and experienced; good-class Dispensing, Photography; highest references. 88/26, Office of this Paper.

LADY Dispenser, Hall certificate, desires post, Doctor or Chemist; Cornwall or London area preferred. Pascoe, Royal Dairy, Windsor.

EEDS.—Locum or permanent; disengaged; good references. Chemist, 10 Greenock Place, Armley.

TOCUM: tall, 46; first class references; disengaged. Howes, 15 Hexthorpe Road, Doneaster.

OCUM; 30 years' Pharmaceutioal and Hospital experience; qualified; disengaged April 12th; holiday bookings invited; London, provincial. M. Smith, c/o Bell & Co., 58 York Road, Waterloo, S.E. 1.

LOCUM; qualified; many years' experience. "Pharmacist," 129 Durham Road, Sparkhill, Birmingham.

L OCUM, age 33, disengaged 27th inst.; 7 years' reference.
March, 10 Milward Crescent, Hastings.

LOCUM (lady); Dispenser, qualified; Hospital experience; excellent testimonials; London or district. Apply "B.," 13 Park Road, E. Twickenham, Middlesex.

L OCUM or permanent; thoroughly experienced; competent, industrious worker; disengaged; can book forward. "Chemicus," 239 Camberwell New Road, S.E. 5.

OCUM, thoroughly experienced, qualified, exceptional references, now disengaged; also few vacant dates during season. "M.P.S.," 32 Allandale Road, Leicester.

OCUM or permanency; disengaged; qualified; 43; thoroughly experienced Retail and Dispensing. "Themist," 183 Alfreton Road, Nottingham.

OCUM; qualified; 45; disengaged; thoroughly experienced; terms moderate. Apply "Locum," Thurlestone, Castle Road, Torquay.

JOUM, May 3-15, May 24-June 19; remainder season booked previous employers; unqualified. "Reliable" (88/3), Office of this Paper.

LOCUM; disengaged; booking forward; elderly; thoroughly experienced; very active, qualified, and a good Salesman. Apply "Statim" (87/22), Office of this Paper.

LONDON qualified Manager seeks comfortable permanency; getic; expert in Photography and Prescribing; now disengaged. "Aspirin," 42b Grand Parade, Harringay, N. 4.

M.P.S., elderly, Locum, small branch, or to supervise or suit convenience; Nottingham or district preferred, Apply 83/14; Office of this Paper.

MANAGER; qualified; married; excellent references; near London preferred; good experience Dispensing, Photographic. Apply 85/22, Office of this Paper.

MANAGER; qualified; disengaged; married; Locum or permanency; long experience; town or country. D. O. C., 26 Fox Hill, S.E. 19.

MANAGER, qualified, 41, married, disengaged; Locum or permanency; excellent experience; recommended. "Leetsag," Povey, Upper Hale, Farnham.

MANAGER, Assistant, Locum; 30 years' practical experience Dispensing, Prescribing, Veterinary, Counter, Photo; disengaged April 24th., "Mac," 5 Port Street, Evesham.

MANCHESTER, LIVERPOOL, OR NEWCASTLE DISTRICTS. --Ex-officer, qualified, 26, single, requires Managership with view early succession. "Confidential" (85/32), Office of this Paper.

MEDICAL Dispenser, wide and varied experience, seeks position of trust and responsibility in Hospital, Institution, or with firm of Wholesale or Retail Chemists; fully qualified; excellent references and testimonials. Apply "Graus" (86/4), Office of this Paper.

NOTTINGHAM.—Locum, temporary Managership, or help mornings and evenings; good Prescriber. "Salicine" (87/1), Office of this Paper.

PART-TIME in Glasgow wanted by lady; thoroughly reliable, experienced, capable Counter hand, Dispensing, N.H.I., Bookkeeping; excellent credentials. Apply 86/7, Office of this Paper. Will advertiser kindly send name and address to this Office.

PART-TIME, evenings or Locum; thoroughly experienced; smart; neat, quick Dispenser; good references. Gibson, 122 Scott-Ellis Gardens, St. John's Wood, N.W.

PHARMACEUTICAL Chemist, with first-class experience, desires four days a week employment in West-End or City Pharmacy. Apply "G.," 92 Twyford Avenue, Acton, W.3.

PHARMACIST (37), single, tall, seeks position in good-class Retail and Dispensing; view early succession; capital, £1,000. 87/31, Office of this Paper.

PHARMACIST desires Managership, with view to succession on easy terms; exceptional London and provincial experience (Manager); Yorks preferred; small capital available. 87/11, Office of this Paper.

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m P}^{
m HARMACIST},$  thoroughly competent all-round man, used to complete control of large business, seeks change; excellent references. 86/29, Office of this Paper.

QUALIFIED Chemist (lady) desires position with Doctor or Chemist as Dispenser; good experience. Apply 82/8, Office of this Paper.

QUALIFIED; 35 years; Photo, Dispensing, Managership, medium-class trade; still in a situation, but can come shortly. Evans, 279 Blackpool Street, Burton-upon-Trent.

QUALIFIED; 49; experienced; active; Locum, relief, or permanency; disengaged. P.C.B. 52/10, Office of this Paper.

QUALIFIED lady Dispenser desires Easter Locum or permanency; Hospital or Doctor; Hospital experience; fluent French. Monro-Higgs, Causeway, Horsham.

QUALIFIED (27), good references, with first-class Dispensing experience, seeks position as Manager of Country business, with view to subsequent succession; North preferred; small capital. 87/38, Office of this Paper.

QUALIFIED Manager; branch or otherwise; references good; also good varied experience; disengaged. Wilson (P.C.B. 52/18), Office of this Paper.

SITUATION required as Improver in good business; London or Home Counties preferred; 15 months' experience; aged 20; passed first examination; careful and painstaking in work; well recommended. Apply "J. R. S.," 16 Market Squarc, Leighton Buzzard.

SMART Salesman; 15 years' experience in London Stores, Drugs, Sundries, Surgical, Toilet, Perfumery, etc.; disengaged April 5th. "Salol," 37 Brunswick Road, N.15.

S.W. LONDON or District.—Part-time (April 14th to Sepyears' experience; Photography and Saturdays; Dispenser; 5½ years' experience; Photography and Counter experience. S. Morrey, 242 Ladbroke Grove, North Kensington, W. 10.

THOROUGHLY experienced, active, gentlemanly, certified Dispenser; abstainer; now disengaged; Locum or relief entertained. "Statim," 82 Dahomey Road, Streatham, S.W. 16.

WEST OF ENGLAND preferred.—Abstainer; ex-soldier; unqualified; single; 36; Photography, Bookkeeping. Burnett, Manor Farm. Langley-Burrell, Chippenham.

WILL Chemist or Wholesale house offer employment to disabled ex-service man in any capanty; unable to continue study or undertake Counter work owing to deafness; 10 years' good-class experience; reliable, hard worker, and trustworthy; willing to do anything to enable him to carry on; age 28; single; London preferred, but would entertain anything anywhere. Apply 84/26, Office of this Paper.

YOUNG lady Dispenser, aged 19, with three years' practical experience, requires situation; City, West-End, or North London preferred; quick and accurate, and Hall qualification; interview. "M. H.," Norfolk House, Danvers Road, Hornsey, N. 8.

YOUNG lady desires post (at once) with Chemist; 3 years' General, Counter, and Photographic experience; first-class reference. N. C., 761 Garratt Lane, Tooting.

#### WHOLESALE.

A DVERTISER (30) desires post as Representative with good firm; West of England and South Wales; smart and energetic; excellent references. Address 87/21, Office of this Paper.

COMPETENT Tablet-maker, with knowledge of Coating, desires post as Charge Hand; good organiser, control staff; thorough knowledge machinery. Apply 87/8, Office of this

COMPETENT Stockkeeper, able to assist in buying; good organiser; used to control. P.C.B. 52/14, Office of this Paper.

LAD, just leaving Public School, wants position as Junior in Laboratory or Chemist's shop. S. D., 176 Junction Road,

REPRESENTATIVE, good connection all Scotland and Ireland, open to represent good Drug Sundry house, or Perfumery, Scaps, Brushes; good agency propositions suit Chemists and Druggists, entertained; highest references. P.C.B. 49/33, Office of

SEVENTEEN years with several of the most prominent Manufacturing Chemists has given the advertiser a vast experience both electrical and mechanical in every possible field in which both theory and practice are required. This experience and knowledge is now available either permanently, temporarily, or in a consultative capacity. The design and installation of Chemical and Pharmaceutical manufacturing plant, power plant, conveying and transport of materials, automatic production, and packing machinery, labour-saving devices, general efficiency, engineering, electro-chemical processes, etc., M.I.E.E. and A.M.I.Mech.E. If you are interested in lowering your costs, increasing your output and efficiency, developing new processes, and require the services or advice of one constantly engaged, or similar work, please communicate in the first instance with 85/40, Office of this Paper.

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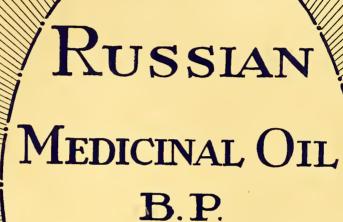
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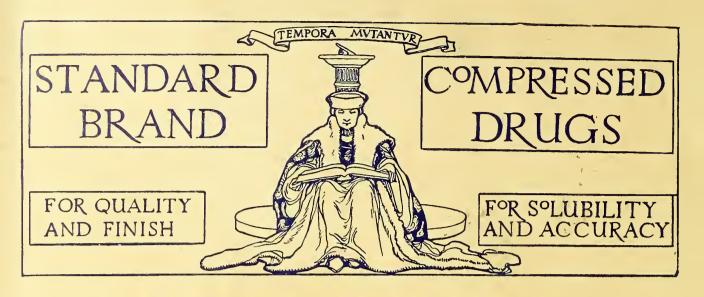
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